5.5 AI&T Tools (T4)

5.5.1 Viewing Science SW Documentation Test Procedures (TS002.002)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software and documents (in different formats) are loaded in the AIT workstation located in the DAAC environment)	Successful login	
2	Type **script T5.1_log** to start the log file		This is a mostly GUI interface test so the script won't tell much but it will record when you start and stop an application and if an application terminated abnormally.
3	Type **DpAtMgr &** to invoke "SSIT Manager" GUI interface	SSIT Manager - Operator View will be displayed	
4	Click the "Tools" option form the menu	Tools Menu will be displayed	
5	Click option for "Office Automation"	Contents of Office Automation Menu will be displayed	
6	Click option for "GhostView" and follow the instructions to view the document in PostScript format	GhostView program will be displayed	
7	Click on open under the file button and select the desired file to view	Document will be displayed in PostScript format	
8	Click the button to print the document in the PostScript format	Document will be printed in Postscript format	
9	Click option for "NCSA Mosiac"	Default home page will be displayed in HTML format	
10	Click the button to print the document in the HTML format	Document will be printed in HTML format	
11	Click option for "Adobe Acrobat"	Acrobat program will be displayed	
12	Click on open under the file button and select the desired file to view	Documents will be displayed in (PDF) format	
13	Click the button to print the document in the PDF format	Document will be printed in Postscript format	

14	Click close to close the Document then click exit the quit the PDF program		Very important exiting a document without closing first will crash the system. Currently this only happens at Nickalus.
15	Click on the MSWindows option from under the Office Automation option	MSWindows' Program Manager will be displayed	
16	In the MSWindows Program Manager click on Microsoft Word	Microsoft Word program will be displayed	
17	Click on the File button	File menu will be displayed under a disk drive	
18	Select the correct disk drive and file in Microsoft Word format and click open button to view the document	Documents will be displayed in the Microsoft Word format	
19	Click the print button to print the document in the Microsoft Wordformat	Document will be printed in Microsoft Word format	
20	Close the Microsoft document	Microsoft Word program will be displayed	
21	Select the correct disk drive and file in Wordperfect format and click open button to view the document	The "Convert File" box will appear	
22	Select either Convert from Wordperfect 5.0 or Wordperfect 5.1 to view the Wordperfect document in Word format.	Documents will be displayed in Word format	
23	Print the converted Word Perfect format	Document will be printed in Word format	
24	Exit Microsoft Word	MSWindows Program Manager will appear	
25	Click on Microsoft Excel	The Excel program will appear	
26	Open a Microsoft Excel document	Document will be displayed in the Excel format	This is the best format for spreadsheet capabilities
27	Print the Excel document	Document will be printed in Excel format	
28	Exit Microsoft Excel	MSWindows Program Manager will appear	
29	Exit Windows	SSIT Manager - Operator View will be displayed	
30	Click on the Xterm button under the Office Automation tool	A Xterm window will appear	
31	Display an applicable documents in the ASCII format by using "vi " command from the command line	Document will be displayed in ASCII format	
32	type **:q!** to exit vi		

33	type **lpr** < document> to print out the document in ASCII format	Document will be printed in ASCII format	
34	Type **exit** to quit the xterm session	SSIT Manager - Operator View will be displayed	
35	Quit the SSIT Manager		
36	Type **exit** to stop the log file		
37	End test/complete logs		

5.5.2 Code Standard Checking-FORTRAN77 Test Procedures (TS002.003)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to AIT1 workstation (dps3sunedf) at GFSC DAAC.	Successful login	
2	Enter **cdtest** on dps3sunedf	dps3sunedf {vkhatri}:	This will take you to /Ir1_IT directory.
3	Enter **cd T4/codes** on dps3sunedf	dps3sunedf {vkhatri}:	
4	Enter **prologs -o TC5.2_prol1 test.f77** on dps3sunedf	dps3sunedf {vkhatri}:	
5	Enter **more TC5.2_prol1** on dps3sunedf	WARNING: No prolog found	
6	Enter **prologs -o TC5.2_prol2 z.f77** on dps3sunedf	dps3sunedf {vkhatri}:	
7	Enter **more TC5.2_prol2** on dps3sunedf	Prolog will be found in the file.	
8	Enter **setenv FC f77** on dps3sunedf	dps3sunedf {vkhatri}:	This step must be entered prior to compiling the f77 code, otherwise you might be compiling with f90 if you had earlier entered setenv F90 f90
9	Enter **f77 test_f77.f** on dps3sunedf to check errors	It will not compile successfully and will generate errors.	
10	Enter **f77 test.f** on dps3sunedf to check errors	It will compile sucessfully without error.	
11	Enter **make -f Makefile >& make.output** on dps3sunedf to check ANSI compliances	It will compile sucessfully without errors.	
12	Enter **f77 -ansi test.f >& test_output** on dps3sunedf to check ANSI compliances	It will not identify any non-ANSI standards in the code.	
13	Logoff the AIT1 workstation	Successful logoff	

5.5.3 Code Standard Checking FORTRAN90 Test Procedures (TS002.004)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT1 workstation(dps3suned) at the GSFC DAAC. (Assuming the compliant algorithm developed in FORTRAN90 is loaded in the AIT1 workstation).	Successful login	
2	Enter **cdtest** on dps3suned	dps3sunedf {vkhatri}:	
3	Enter **cd T4/codes** on dps3suned	dps3sunedf {vkhatri}:	
4	Enter **setenv F90 f90** on dps3suned	This sets the environment for f90 compiler.	
5	Enter **make -f Makefile >& TC5.3_log** on dps3suned	It will not identify non-ANSI standards in the code.	
6	Logoff the AIT1 workstation	Successful logoff	

5.5.4 Code Standard Checking "C" Test Procedures ((TS002.005)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the dps3sunedf (AIT workstation) at EDF in the DAAC environment.	Successful login	
2	Enter **cd /Ir1_IT/T4/codes**	dps3suned {vkhatri}:	
3	Enter **prologs -o TC5.4_prol1 z3.c** on dps3sunedf	dps3sunedf {vkhatri}:	
4	Enter **more TC5.2_prol1** on dps3sunedf	WARNING: No prolog found	
5	Enter **prologs -o TC5.2_prol2 z.c** on dps3sunedf	dps3sunedf {vkhatri}:	
6	Enter **more TC5.2_prol2** on dps3sunedf	Prolog will be found in the file.	
7	Enter: **cc -Xc test_c.c -o a1.out** Note: test_c.c program in C has been written in accordance to ANSI standard.	This command will compile test_c.c program and generate an executable code under a1.out file name.	This verifies that the C program meets the ANSI and POSIX standards.
8	Enter: **cc -Xc test_c2.c -o a2.out** Note: test_c.c program in C was modified to the traditional C syntax.	The command will compile successfully because the ANSI C compilers will accept traditional syntax as well as the newer syntax (ANSI standard) and generate a2.out executable code.	
9	Enter: **cc -Xa test_c.c** Note: test_c.c program in C has been written in accordance to POSIX standard.	The file containing a program in C will compile successfully	This verifies that the C program meets the POSIX standards.
10	Enter: **cc -v test_type_mismatch.c >& TC5.4_mismatch** Note: 'test_type_mismatch.c' program in C contains mismatches in types	dps3sunedf {vkhatri}:	
11	Enter **more TC5.4_mismatch** on dps3sunedf	Warnings about an argument for not being compatible will be displayed.	
12	Enter: **cc -v test_arg_mismatch.c** Note: 'test_type_mismatch.c' program in C contains mismatches in argument.	dps3sunedf {vkhatri}:	
13	Enter **lpr -p** <printer at GSFC DAAC> **TC5.4_mismatch**	The report files describing the result of compliance will be printed.	
14	Logoff the AIT1 workstation	Successful logoff	

5.5.5 Code Standard Checking "Ada" Test Procedures (TS002.006)

Step No.	Step Description / Operator Action	Expected Results	Observations / Comments
1	Logon to the AI & T Server 1 (PWR Challenge (dps1sgiedf)) workstation at the GSFC DAAC	Successful login	
2	Enter **cd /lr1_IT/T4/ada** on dps1sgiedf	dps1sgiedf {vkhatri}:	
3	Enter **prologs -o TC5.5_prol1 z1.a** on dps1sgiedf	dps1sgiedf {vkhatri}:	
4	Enter **more TC5.5_prol1** on dps1sgiedf	Prolog will be found in the file.	
5	Enter **prologs -o TC5.2_prol2 z2.a** on dps1sgiedf	dps1sgiedf {vkhatri}:	
6	Enter **more TC5.5_prol2** on dps1sgiedf	WARNING: No prolog found	
7	Enter: **ada -M hello.a** on dps1sgiedf	The Ada compiler will create an executable code (a.out).	The algorithm will compile successfully (algorithm in Ada code should be MIL-STD-1815-A and 423-16-01 Standards and Guidelines compliant).
8	Enter: **a.out** on dps1sgiedf	'Hello Wold' will be displayed	
9	Logoff the dps1sgiedf workstation	Successful logoff	

5.5.6 Code Standard Checking PGS Toolkit Usage Test Procedures (TS002.007)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to dps3sunedf (AIT workstation) at EDF in the DAAC environment. The science algorithms should not contain any prohibited function calls. The process control file delivered with science algorithm should be in correct syntax.	Successful login	
2	Enter **cdtest** on AIT1	dps3sunedf {vkhatri}:	This will take you to /Ir1_IT directory.
3	Enter **cd T4/codes**		
4	Enter **setenv DISPLAY ncdxx.hitc.com:0.0** on AIT1	dps3sunedf {vkhatri}:	
5	Type **DpAtMgr &** to invoke "SSIT Manager" GUI interface	GUI for SSIT Manager will be displayed.	
6	Click the **Tools** button from the menu	Tools Menu will be displayed	
7	Click the **Standards Checkers** button	Contents of Standards Checkers Menu will be displayed	
8	Click the **Prohibited Function Checker** button	The manu for 'Prohibited Function Checker' will be displayed.	
9	Click the **Analyze** button	The manu for File Selector will be displayed.	
10	If necessary change the directory to /Ir1_IT/T4/codes/	List of programs in C, C++, Ada and Fortran77 and Fortran90 will be displayed.	
11	Select the file with FORTRAN77 program and click **OK** button	List of programs in C, C++, Ada and fortran will be displayed.	If prohibited function found in that file, the file name will appear in the 'Prohibited Function Checker' panel
12	Select the file appeared in the 'Prohibited Function Checker' and click the **View** button	The 'Source Code' window will appear with the prohibited function(s) high lighted.	
13	Click **Next** button as necessary to browse the entire file		
14	Click **Done** button	The 'Source Code' window will disappear.	
15	Click **Report** button	The 'Report' window will appear.	
16	Click **Save** button	The 'Save As' window will appear.	
17	Enter a file name.	The file will be saved under a given name.	
18	Click **Done** button	The 'Save As' window will disappear.	
19	Repeat steps 6 through 18 for Fortran90 (driver.f), C (driver.c), C++ (p1.cc) and Ada (ada_code.a) programs		There will be no prohibited function found in ada_code.a

20	Click **Option** button from the menu		
21	Click **Standards Checkers** button	Contents of Standards Checkers Menu will be displayed	
22	Click **Process Control File Checker** button	The window for 'Prohibited Control File Checker' will be displayed.	
23	Select **PCF.v5** file This file is under /data3/AI_T/data/		
24	Click **Check PCF** button	The window for 'PCF Checker Results will be displayed. There will be no difference found in compare check. Errors found: 0 Warning found: 0	
25	Click **Save To File** and enter a file name under /Ir1_IT/T4/codes directory	The file will be saved under a given file name.	
26	Click **Print** button to print the result	The result will be printed at the local printer.	
27	Click **Check Another** button	The result will be printed at the local printer.	
28	Select **PCF.v5.ssit** file This file is under /data3/AI_T/data		
29	Click **Check PCF** button	The window for 'PCF Checker Results will be displayed. There will some difference found in compare check.	
30	Click **Save To File** and enter a file name under /Ir1_IT/T4/codesdirectory	The file will be saved under a given file name.	
31	Click **Print** button to print the result	The result will be printed at the local printer.	
32	Click **Quit** button		
33	Click **Options** and **Exit** buttons		
34	Logoff the AIT workstation (dps3sunedf)	Successful logoff	

5.5.7 File Comparison Test Procedures (TS002.010)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation at EDF in the DAAC environment. (Assuming that the AIT workstation contains identical and non-identical files in the ASCII, binary and HDF formats).	Successful login	
2	Use the command <setenv DISPLAY > to set the enviroment		
3	Type command "SSIT Manager" <DpAtMgr> to invoke GUI interface	SSIT Manager - Operator View will be displayed	
4	Click the "Tools" option from the pull down menu	Tools Menu will be displayed	
5	Click option for "Product Examination"	Contents of Production Examination Menu will be displayed	
6	Click option for "File Comparison"	The menu of File Comparison will be displayed	
7	Click option for "Binary "	The Binary File difference window will be displayed	There will be no difference between these two Binary files.
8	Select C from select language	"C" is indented	
9	Copy templetes into home directory by clicking on copy and entering the characters "zz" in the enter unique file identifier. Click on " ok"	A notification window popup stating file copy was successful.	By being able to copy these templates the user can use diff to compare any custom format.
10	The result of the above step created 3 files. The files have extension of " .c, .mak, _driver.c". To view type "ll " in your exterm window. .		
11	Print the 3 files to a printer . <DaacBinDiff_zz.c, DaacBinDiff.mak, DaacBinDiff_driver.c	Files are printed to a printer	
12	For test purposes use the set of files that have already been modified from the templates listed above. The files are **DaacBinDiff_Ex_byte_image.c, DaacBinDiff_Ex_byte_image.mak, DaacBinDiff_Ex_byte_image_driver.c**		For test purposes you need to cd to the src directory
13	Compile and make file using the command "**make -f DaacBinDiff_Ex_byte_image.mak"**	file "DaacBinDiff_Ex_byte_image_driver is created in home directory"	

14	To compare run difference program on files using the command "DaacBinDiff_Ex_byte_image_driver Ex_byte_image.daac Ex_byte_image.scf	The output file will be **"Ex_byte_image.scf.dif"**	
15	Enter more Ex_byte_image.scf.dif to view the output file	Output shall display fdifferences in file header.	
16	Enter "DaacBinDiff_Ex_byte_image_driver Ex_byte_image.daac Ex_byte_image.daac"	The output file will be "Ex_byte_image.daac.dif"	Compare a file with itself
17	Enter more Ex_byte_image.daac.dif to view the output file	The output file should be blank	
18	Click the tools button, then product examination then file comparison, then HDF to bring up the GUI for comparing HDF files.	DpAtMgrCheckHdfFile gui will appear	
19	Click button File #1 and enter the first HDF file	The first file entered will appear on the screen below the File #1 button	
20	Click button File #2 and enter the same file	The first file entered will appear on the screen below the File #2 button	
21	Select a common dataset to compare the two files	The results of the comparison will be shown in table in the middle of the GUI This result should be zero	
22	Click on report to save the results to a file (HDFDIFF-REPORT)	A window will pop up showing which fields of data had differences	
23	Click on the "Done with HDFDIFF-REPORT" button to close the window		
24	Click done to quit the HDF file comparison		
25	Click on exit under the option button to exit the SSIT tools		
26	At the Xterm window type **ll** the file HDFDIFF-REPORT show be in the current directory		
27	Type **more HDFDIFF-REPORT** to view the file		
28	Repeat steps 18 thru 27 but with 2 different files. The results in 21 should now have some data showing the differences apppearing in the middle of the GUI. Also the HDFDIFF-REPORT file will also have data in it.		
28	In the command line compare two identical files in the ASCII format from command line by type "diff <file1> <file2> <result file>" command.	The only thing that will appear is the return prompt	
29	Review the report of the file comparison result	The report will be reviewed	There will be no difference between these two ASCII files.

31	Compare two non-identical files in the ASCII format from command line by type " **diff** <file1> <file2> **>** <result file>" command.	Existing differences will be displayed between these two ASCII files.	Pipe the result to the result file
32	Review the report of the file comparison result for ASCII files	The report will be reviewed	There will be difference between these two ASCII files
34	type **exit** to stop the log file		
35	Logoff the AIT workstation	Successful logoff	

5.5.8 Status Tracking and Report Generation Test Procedures (TS002.012)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation at EDF in the DAAC environment. (Assuming the DAAC version PGS toolkit and compliant representative algorithm are loaded in the AIT workstation.)	Successful login	
2	Login a workstation with proper authority	Successful login	
3	Type **script** <file name> to start a log file		
4	Type **DpAtMgr** to start the SSIT tools	SSIT Manager will be displayed	
5	Click on tools, then Office Automation, the MS Windows to start Windows.	Windows will be displayed	
6	Click on Excel	Excel will be brought up	
7	Bring up a sample Excel document.		For Ir1 Excel will be how the Science community is going to write NCRs and any other reports that are needed.
8	Print the Excel document		
9	Exit Excel, then exit Windows	The SSIT Manager will be displayed	
10	Click on one of the fields in the sample checklist		
11	Write a log entry in the SSIT log. If the box is empty click on Change State. If there is already info there click on Edit. Click OK when done	The Annotate Log Entry box will appear. After you click Ok. Your entry will appear and the time will be updated to show when you entered something.	
12	Exit the SSIT Manager		
13	Rlogin into another user account.		
14	Type **DpAtMgr** to bring up the SSIT Manager from their account.	The SSIT Manager will be displayed. And from this account you should be able to view the log entry that you just entered from the other account.	
15	Exit the SSIT Manager		
16	Type **exit** to exit back to your account		
17	Type **exit** to stop the log file		
18	Logoff the AIT workstations at DAAC and complete logs.	Successful logoff	

5.5.9 Product Metadata Test Procedures (TS002.015)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation in the DAAC environment at EDF. (Assuming the DAAC version PGS toolkit and compliant representative algorithm are loaded in the AIT workstation.)	Successful login	
2	Type **script** <file name> to start a log file	The log file will be started	
3	Type **DpAtMgr &** to invoke "SSIT Manager" GUI interface	SSIT Manager - Operator View will be displayed	
4	Click the "Tools" option form the menu	Tools Menu will be displayed	
5	Click option for "Product Examination"	Contents of Production Examination Menu will be displayed	
6	Click option for "File Comparison"	The menu of File Comparison will be displayed	
7	Click option for "HDF file comparison"	The HDF gui (DpAtMgrCheckHdfFile) will be displayed	
8	Click on File #1 and choose the first metadata file	The path of the first file chosen will be chosen in the scroll bar	
9	Click on File #2 and choose the first metadata file	The path of the second file chosen will be chosen in the scroll bar	
10	Click on the metadata button under the first file to view the metadata	Window will pop up displaying info on the different types of data in the file	
11	Close the window displaying the metadata info		
12	Select a common dataset to compare the two files	The results of the comparison will be shown in table in the middle of the GUI	
13	Click on report to save the results to a file (HDFDIFF-REPORT)	A window will pop up showing which fields of data had differences	
14	Click on the "Done with HDFDIFF-REPORT" button to close the window		
15	Click done to quit the HDF file comparison		
16	Click on exit under the option button to exit the SSIT tools		
17	At the Xterm window type **ll** the file HDFDIFF-REPORT show be in the current directory		
18	Type **more HDFDIFF-REPORT** to view the file		
19	Type **exit** to stop the log file		

20	Complete test logs and log out		

5.5.10 Profiling Test Procedures (TS002.016)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation in the DAAC environment at EDF. (Assuming the DAAC version PGS toolkit and compliant representative algorithm are loaded in the AIT workstation.)	Successful login	The line setenv DISPLAY <machine user is running from> has to be in the .cshrc file on the SGI machine.
2	Type **script** <log file>		
3	Type **DpAtMgr &** to invoke "SSIT Manager" GUI interface	SSIT Manager - Operator View will be displayed	
4	Click the "Tools" option form the menu	Tools Menu will be displayed	
5	Click option for "Code Analysis"	Contents of Code Analysis Menu will be displayed	
6	Click option for "CASEVision"	The menu of CASEVision will be displayed. Product View will be displayed	
7	Click on Debugger	Workshop debugger will be displayed	
8	Click on Perf and under the pull down menu click on Select Task	A list of tasks will appear	
9	Activated the following profiling activities one at a time Get Total time per function & source line Get CPU time per function & source line Trace I/O activity Trace page faults	Job will be started and execution message may be displayed .	
10	In the Workshop Debugger GUI click on Views	A pull-down menu will appear	
11	Click on memory view	The memory view GUI will appear	
12	In the Workshop Debugger GUI click on View	The pull-down menu will appear again	
13	Click on process meter	The process meter GUI will appear	
14	Click on charts	A pull down menu will appear	
15	Click on bytes read/written	The process meter GUI will appear with the bytes read showing.	
16	In the Workshop Debugger GUI click on source	A pull down menu will occur	
17	Click on Save as	To save the results to file	
18	Click the print button to print the reports that contains the measurements of the activities mentioned above	The report files describing the measurements will be printed	

19	Close all of the Casevision windows and exit out of the SSIT manager		
20	Type from the xterm window **rsh dps1sg1edf.gsfc.nasa.gov /usr/sbin/cvproj**	CaseVision will start and tests will start to run	
21	Repeat steps 7 thru 19		
22	Type **exit** to stop the log file		
23	Logoff the AIT workstation and complete test logs		

5.5.11 Process (check-in) Algorithm to Configuration Management Test Procedures (T03-01.05.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
2	Enter: **<password>**	'host name{user name}' will be displayed	
3	Enter: **telnet bering.hitc.com**	'login:' will be displayed	
4	Enter: **<login id>** on bering.hitc.com	'Password:' will be displayed	
5	Enter: **<password>**	'host name{user name}' will be displayed	
6	Enter: **cd pathfinder**		
7	Enter: **ftp dps3sunedf.gsfc.nasa.gov**	Connected to dps3sunedf.gsfc.nasa.com.	
8	Enter: **put pathfinder.c**	'Transfer complete.'	
9	Enter: **quit**	'Goodbye.' (ftp connection closed)	
10	Enter: **exit**	'Connection closed by foreign host.'	
11	Enter: **cleartool setview <view name>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
12	Enter: **cd /ecs/pathfinder**		
13	Enter: **cleartool checkout -nc .**	Checked out "." from version "/main/0".	The '-nc' option stands for 'no comment'
14	Enter: **cp ~/pathfinder.c .**	Algorithm is copied to current directory.	
15	Enter: **cleartool mkelem -ci pathfinder.c**	'Checkin comments for " pathfinder.c ":'	The '-ci' option stands for 'check in'
16	Enter: **Initial algorithm creation(version1)** <return> **.** <return>	Created element "pathfinder.c" (type "text_file"). Checked in " pathfinder.c " version "/main/1".	The algorithm is created and checked in.
17	Enter: **cleartool checkin -nc .**	Checked in "." version "/main/1".	
18	Enter: **cleartool lshistory pathfinder.c**	A history is displayed including: date, user, action	
19	Enter: **ls -la pathfinder.c**	A directory listing of the algorithm is displayed.	Note that since the algorithm is now under CM, there are no write permissions
20	Enter: **exit**	Exits the clearcase view	
21	Logoff the AIT workstation	Successful logoff	

5.5.12 Check-out Algorithm from CM to User Test Procedures (T03-01.05.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
2	Enter: **<password>**	'host name{user name}' will be displayed	
3	Enter: **cleartool setview <view name>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
4	Enter: **cd /ecs/pathfinder**		
5	Enter: **cleartool checkout pathfinder.c**	Checkout comments for "pathfinder.c":	
6	Enter: **First algorithm upgrade(version2)** <return> **.** <return>	Checked out "pathfinder.c" from version "/main/1".	
7	Enter: **vi pathfinder.c**	Algorithm is brought up in the editor.	
8	Insert the following line at the top of the file: **/*VERSION2*/**		
9	Enter: **cleartool lshistory pathfinder.c**	A history is displayed including: date, user, action	The latest entry is ‘checkout version’.
10	Enter: **ls -la pathfinder.c**	A directory listing of the algorithm is displayed.	The permissions have write access.
11	Enter: **exit**	Exits the clearcase view	
12	Logoff the AIT workstation	Successful logoff	

5.5.13 Check-out Algorithm from CM to Multiple Users Test Procedures (T03-01.05.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id 1>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
2	Enter: **<password 1>**	'host name{user name}' will be displayed	
3	Enter: **cleartool setview <view name 1>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
4	Enter: **cd /ecs/pathfinder**		
5	Enter: **cleartool checkout pathfinder.c**	Checkout comments for "pathfinder.c":	
6	Enter: **Second algorithm upgrade(version3)** <return> **.** <return>	Checked out "pathfinder.c" from version "/main/2".	
7	Enter: **vi pathfinder.c**	Algorithm is brought up in the editor.	
8	At the top of the file, change: **/*VERSION 2*/** to **/*VERSION 3*/**		The Version 2 line was added to the algorithm in test case 5.5.12.
9	Enter: **<login id 2>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
10	Enter: **<password 2>**	'host name{user name}' will be displayed	
11	Enter: **cleartool setview <view name 2>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
12	Enter: **cd /ecs/pathfinder**		
13	Enter: **cleartool checkout -nc pathfinder.c**	cleartool: Error: Branch "/main" of element is checked out reserved by view "mss1hped:/disk1/viewstore/jwatts-v1".	Note that we're unable to checkout the file 'reserved' since user1 has already done so.
14	Enter: **cleartool checkout -nc -unr pathfinder.c**	Checked out "pathfinder.c" from version "/main/2".	-unr stands for 'unreserved'
15	Enter: **cleartool lshistory pathfinder.c**	A history is displayed including: date, user, action	The history shows that view 1 has a reserved copy and view 2 has an unreserved copy.
16	Enter: **vi pathfinder.c**	Algorithm is brought up in the editor.	
17	At the top of the file, change: **/*VERSION 2*/** to **/*VERSION 4*/**	Note that 'Version 2' still exists because user2 can't see the version that user1 changed in step 7.	The Version 2 line was added to the algorithm in test case 5.5.12.
18	Enter: **exit** in both user windows	Exits the clearcase views	
19	Logoff the AIT workstation	Successful logoff	

5.5.14 Check-in Modified Algorithm to CM Test Procedures (T03-01.05.04)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
2	Enter: **<password>**	'host name{user name}' will be displayed	
3	Enter: **cleartool setview <view name>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
4	Enter: **cd /ecs/pathfinder**		
5	Enter: **cleartool checkin pathfinder.c**	Default: First algorithm upgrade(version2) Checkin comments for "pathfinder.c": ("." to accept default)	It is assumed that the algorithm is already checked out and has been edited (this was done in test case 5.5.12 (T03-01.05.02).
6	Enter: **.** <return>	Checked in "pathfinder.c" version "/main/2".	
7	Enter: **cleartool lshistory pathfinder.c**	A history is displayed including: date, user, action	
8	Enter: **ls -la pathfinder.c**	A directory listing of the algorithm is displayed.	
9	Enter: **exit**	Exits the clearcase view	
10	Logoff the AIT workstation	Successful logoff	

5.5.15 Check-in Modified Algorithm with Multiple Check-outs to CM Test Procedures (T03-01.05.05)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id 1>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
2	Enter: **<password 1>**	'host name{user name}' will be displayed	
3	Enter: **cleartool setview <view name 1>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
4	Enter: **cd /ecs/pathfinder**		
5	Enter: **cleartool checkin pathfinder.c**	Default: Second algorithm upgrade(version3) Checkin comments for "pathfinder.c": ("." to accept default)	
6	Enter: **.** <return>	Checked in "pathfinder.c" version "/main/3".	
7	Enter: **<login id 2>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
8	Enter: **<password 2>**	'host name{user name}' will be displayed	
9	Enter: **cleartool setview <view name 2>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
10	Enter: **cd /ecs/pathfinder**		
11	Enter: **cleartool checkin pathfinder.c**	Checkin comments for "pathfinder.c":	It is assumed that the algorithm is already checked out and has been edited (this was done in test case 5.5.13 (T03-01.05.03).
12	Enter: **Third algorithm upgrade(version4)** <return> **.** <return>	cleartool: Error: The most recent version on branch "/main" is not the predecessor of this version. cleartool: Error: Unable to check in "pathfinder.c".	We can't just check the updated file in, we must use the 'merge' utility since we had an unreserved copy and the predecessor changed.
13	Enter: **cleartool merge -to pathfinder.c -version /main/2 /main/3**	Differences found in the versions are displayed. 'Do you want the CHANGE made in file 3? [yes]'	
14	Enter: **no**	'Do you want the CHANGE made in file 4? [yes]'	

15	Enter: **yes**	Applying CHANGE from file 4 [line 1] ========== ========== Moved contributor "pathfinder.c" to "pathfinder.c.contrib". Output of merge is in "pathfinder.c". Recorded merge of "pathfinder.c".	Change made in version 4 is merged into the file.
16	Enter: **cleartool lshistory pathfinder.c**	A history is displayed including: date, user, action	
17	Enter: **diff pathfinder.c@@/main/3 pathfinder.c@@/main/4**	1c1 < /*VERSION 3*/ --- > /*VERSION 4*/	
18	Enter: **cleartool mklbtype -nc REL2**	Created label type "REL2".	
19	Enter: **cleartool mklabel -version /main/2 REL2 pathfinder.c**	Created label "REL2" on "pathfinder.c" version "/main/2".	
20	Enter: **cleartool lshistory pathfinder.c**	A history is displayed including: date, user, action	The /main/2 version of the algorithm has '(REL2)' next to it.
21	Enter: **head -1 pathfinder.c**	/*VERSION 4*/	
22	Enter: **cleartool edcs**	The config-spec appears in vi.	
23	Insert the following at the beginning: **element * /main/REL2**	Sets the config-spec to first look for files that have the 'REL2' label attached to them.	
24	Save and exit 'vi'.	Set config spec for view "<view name 2>"? [yes]	
25	Enter: **<return>**	Sets the view according to the new config-spec.	
26	Enter: **head -1 pathfinder.c**	/*VERSION 2*/	We have successfully set our view to see a particular version(2) of the file.
27	Enter: **exit** in both user windows	Exits the clearcase views	
28	Logoff the AIT workstation	Successful logoff	

5.5.16 Enhanced Algorithm Under CM at EDF Test Procedures (T03-01.05.06)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
2	Enter: **<password>**	'host name{user name}' will be displayed	
3	Enter: **telnet bering.hitc.com**	'login:' will be displayed	
4	Enter: **<login id>** on bering.hitc.com	'Password:' will be displayed	
5	Enter: **<password>**	'host name{user name}' will be displayed	
6	Enter: **cd pathfinder**		
7	Enter: **vi pathfinder.c**	Algorithm is brought up in the 'vi' editor.	
8	Insert the following line at the top of the file: **/*Enhanced algorithm - VERSION5*/**	The 'enhanced version' of the algorithm is ready to go to the EDF and be placed under CM control.	
9	Enter: **ftp dps3sunedf.gsfc.nasa.gov**	Connected to dps3sunedf.gsfc.nasa.com.	
10	Enter: **put pathfinder.c**	'Transfer complete.'	
11	Enter: **quit**	'Goodbye.' (ftp connection closed)	
12	Enter: **exit**	'Connection closed by foreign host.'	
13	Enter: **cleartool setview <view name>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
14	Enter: **cd /ecs/pathfinder**		
15	Enter: **head -1 pathfinder.c**	/*VERSION 4*/ (this is before the enhanced version)	It is assumed that the algorithm has been edited (this was done in test case 5.5.12, 5.5.13 and 5.5.15).
16	Enter: **cleartool checkout pathfinder.c**	Checkout comments for "pathfinder.c":	
17	Enter: **Enhanced Algorithm (version5)** <return> **.** <return>	Checked out "pathfinder.c" from version "/main/4".	
18	Enter: **cp ~/pathfinder.c .**	cp: overwrite ./pathfinder.c (y/n)?	This line will appear depending upon the user's shell (the setting of 'noclobber').
19	Enter: **y**	'Checkin comments for " pathfinder.c ":'	

20	Enter: **cleartool checkin pathfinder.c**	Default: Enhanced Algorithm (version5) Checkin comments for "pathfinder.c": ("." to accept default)	
21	Enter: **.** <return>	Checked in "pathfinder.c" version "/main/5".	
22	Enter: **head -1 pathfinder.c**	/*Enhanced Algorithm - VERSION5*/	The enhanced version is now under CM.
23	Enter: **cleartool lshistory pathfinder.c**	A history is displayed including: date, user, action	
24	Enter: **exit**	Exits the clearcase view	
25	Logoff the AIT workstation	Successful logoff	

5.5.17 Check-in GFE, COTS and/or Public Domain Database Files to CM Test Procedures (T03-01.06.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** onto dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed	
2	Enter: **<password>**	'host name{user name}' will be displayed	
3	Enter: **telnet bering.hitc.com**	'login:' will be displayed	
4	Enter: **<login id>** on bering.hitc.com	'Password:' will be displayed	
5	Enter: **<password>**	'host name{user name}' will be displayed	
6	Enter: **cd pathfinder**		
7	Enter: **ftp dps3sunedf.gsfc.nasa.gov**	Connected to dps3sunedf.gsfc.nasa.com.	
8	Enter: **bin**	Type set to I.	
9	Enter: **put etop05.dat**	'Transfer complete.'	The etop05.dat file is a Sea Level Elevation Model data file.
10	Enter: **quit**	'Goodbye.' (ftp connection closed)	
11	Enter: **exit**	'Connection closed by foreign host.'	
12	Enter: **cleartool setview <view name>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
13	Enter: **cd /ecs/pathfinder**		
14	Enter: **cleartool checkout -nc .**	Checked out "." from version "/main/5".	The '-nc' option stands for 'no comment'
15	Enter: **cp ~/etop05.dat .**	Data file is copied to current directory.	
16	Enter: **cleartool mkelem -ci etop05.dat**	Creation comments for "etop05.dat":	The '-ci' option stands for 'check in'
17	Enter: **Initial database creation(version1)** <return> **.** <return>	Changed protection on "/ecs/pathfinder/./etop05.dat". Created element "etop05.dat" (type "compressed_file"). Checked in "etop05.dat" version "/main/1".	The data file is created and checked in.
18	Enter: **cleartool checkin -nc .**	Checked in "." version "/main/6".	
19	Enter: **cleartool lshistory etop05.dat**	A history is displayed including: date, user, action	
20	Enter: **ls -la etop05.dat**	A directory listing of the algorithm is displayed.	Note that since the algorithm is now under CM, there are no write permissions
21	Enter: **exit**	Exits the clearcase view	

22	Logoff the AIT workstation	Successful logoff	

5.5.18 Data Comp. Tool for Identical Alg. Test Procedures (T03-01.08.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation in the SCF environment at EDF.	Successful login	
2	type **script** <log file> to start up a log file		
3	Enter **cd/data3/AI_T/src**	You will be in the src directory where the binary file difference driver is located.	
4	Compare two identical files using the command "DaacBinDiff_Ex_byte_image_driver <file number 1> <file number 1>)	The output file will be <file number 1.dif>	
5	Enter more <file number 1.dif> to view the output file	Output shall display no differences for the two files.	
6	Enter **telnet** <any hitc machine boston aqua e.g..>	Should be remotely logged into the hitc machine	
7	Enter **mkdir** <name> to create a new directory		
8	Enter **cd** <name> to enter the newly create directory		
9	Enter **ftp 192.150.28.116** to ftp back into the original machine	Enter login will be displayed	
10	Enter <login id>	Enter password will be displayed	
11	Enter <password>		
12	Enter **binary**		
13	Enter **prompt** to turn interactive mode off		
14	Enter **cd/data3/AI_T/src** to enter the src directory on the AIT machine		
15	Enter **mget *** to receive all files		
16	Enter **bye** to exit the AIT machine		
17	Enter **chmod 777 *** so you will have permission to execute files in this directory		
18	Enter **cp** <file number 1> <file number 1.new machine> to change the name of the file		
19	Compare two identical files using the command "DaacBinDiff_Ex_byte_image_driver <file number 1.new machine> <file number 1.new machine>)	The output file will be <file number 1.new machine.dif>	
20	Enter more <file number 1.new machine.dif> to view the output file	Output shall display no differences for the two files.	

21	Compare the results of the two difference files	Both files will be the same with no differences in either	
22	Enter **rm *** to remove all files		
23	Enter **cd ..** to move back one directory		
24	Enter **rmdir** <name> to remove the directory that was created in step 7		
25	Type **exit** to exit the hitc machine		
26	Type **exit** to stop the log file		
27	Print the log file and exam.		
28	Logoff the AIT workstation in the DAAC environment and complete logs	Successful logoff	

5.5.19 Data Comp. Tool for Different Alg Test Procedures (T03-01.08.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation in the SCF environment at EDF.	Successful login	
2	type **script** <log file> to start up a log file		
3	Enter **cd/data3/AI_T/src**	You will be in the src directory where the binary file difference driver is located.	
4	Compare two identical files using the command "DaacBinDiff_Ex_byte_image_driver <file number 1> <file number 2>)	The output file will be <file number 1.dif>	
5	Enter more <file number 1.dif> to view the output file	Output shall display differences for the two files.	
6	Enter **telnet** <any hitc machine boston aqua e.g..>	Should be remotely logged into the hitc machine	
7	Enter **mkdir** <name> to create a new directory		
8	Enter **cd** <name> to enter the newly create directory		
9	Enter **ftp 192.150.28.116** to ftp back into the original machine	Enter login will be displayed	
10	Enter <login id>	Enter password will be displayed	
11	Enter <password>		
12	Enter **binary**		
13	Enter **prompt** to turn interactive mode off		
14	Enter **cd/data3/AI_T/src** to enter the src directory on the AIT machine		
15	Enter **mget *** to receive all files		
16	Enter **bye** to exit the AIT machine		
17	Enter **chmod 777 *** so you will have permission to execute files in this directory		
18	Enter **cp** <file number 1> <file number 1.new machine> to change the name of the file. Do this for both files		
19	Compare two identical files using the command "DaacBinDiff_Ex_byte_image_driver <file number 1.new machine> <file number 2.new machine>)	The output file will be <file number 2.new machine.dif>	
20	Enter more <file number 2.new machine.dif> to view the output file	Output shall display differences for the two files.	
21	Compare the results of the two difference files	Both files will be the same with the same differences	

22	Enter **rm *** to remove all files		
23	Enter **cd ..** to move back one directory		
24	Enter **rmdir** <name> to remove the directory that was created in step 7		
25	Type **exit** to exit the hitc machine		
26	Type **exit** to stop the log file		
27	Print the log file and exam.		
28	Logoff the AIT workstation in the DAAC environment and complete logs	Successful logoff	

5.5.20 Data Comp. Tools for ECS defined platforms Test Procedures (T03-01.08.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation in the SCF environment at EDF.	Successful login	
2	type **script** <log file> to start up a log file		
3	Enter **cd/data3/AI_T/src**	You will be in the src directory where the binary file difference driver is located.	
4	Compare two different files using the command "DaacBinDiff_Ex_byte_image_driver <file number 1> <file number 2>)	The output file will be <file number 2.dif>	
5	Enter more <file number 1.dif> to view the output file	Output shall display differences for the two files.	
6	Enter **rlogin** <to a SGI machine dps1sg1edf>	Should be remotely logged into the SGI machine	
7	Cd to the directory that will have the same files as used in step 4		
8	enter cp <file number 1> <file number 1.sgi> to change the name of the file. Do this for both files		
9	enter **ftp** to remotely log back into the AIT machine		
10	enter **binary**		
11	enter **cd/data3/AI_T/src**		
12	enter **put** <file number 1.sgi> to transfer the file from the sgi machine to the AIT machine do this for both files		
13	type **bye** to quit ftp		
14	type **exit** to log out of the sgi machine		
15	enter **cd/data3/AI_T/src**		
16	Compare two different files using the command "DaacBinDiff_Ex_byte_image_driver <file number 1.sgi> <file number 2.sgi>)	The output file will be <file number 2.sgi.dif>	
17	Enter more <file number 2.sgi.dif>to view the output file	Output shall display differences for the two files.	
18	Compare <file number 2.dif> <file number 2.sgi.dif>	The two files should be the same	
19	Enter rlogin <to a HP machine css1hpedf>	Should be remotely logged into the SGI machine	

20	Cd to the directory that will have the same files as used in step 4		
21	enter cp <file number 1> <file number 1.hp> to change the name of the file. Do this for both files		
22	enter **ftp** to remotely log back into the AIT machine		
23	enter **binary**		
24	enter **cd/data3/AI_T/src**		
25	enter **put** <file number 1.hp> to transfer the file from the sgi machine to the AIT machine do this for both files		
26	type **bye** to quit ftp		
27	type **exit** to log out of the hp machine		
28	Compare two different files using the command "DaacBinDiff_Ex_byte_image_driver <file number 1.hp> <file number 2.hp>)	The output file will be <file number 2.hp.dif>	
29	Enter more <file number 2.hp.dif>to view the output file	Output shall display differences for the two files.	
30	Compare <file number 2.dif> <file number 2.hp.dif>	The two files should be the same	
31	type **exit** to quit the log file		
32	exit the workstation and complete logs		

5.6 DAAC Toolkit Thread (T5)

5.6.1 SCF Toolkit in SCF Enviroment Test Procedures (TS001.001)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	None -see test case 5.6.2 (TS001.002)		This test case was found to be reduntant with test case 5.6.2 (TS001.002). The process of ingesting with the SCF toolkit (Toolkit 5) in the DAAC enviroment. his will verify that the algoritm produces the same results regardless of the enviroment.

5.6.2 SCF Toolkit in DAAC Environment Test Procedures (TS001.002)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** on dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed on the screen.	It is assumed that the SCF Toolkit is already installed.
2	Enter: **<password>**.	'host name {user name}:' will be displayed.	
3	Enter: **source /lr1_IT/AI_T/toolkit/PGSTK/bin/pgs-dev-env.csh**	The toolkit environment is set.	
4	Enter: **cd /data3**		
5	Enter: **mkdir aster**		
6	Enter: **cd aster**		
7	Enter: **tar xvf ~/aster.tar**	The ASTER PGS team provided pre-beta science software will unpack.	It is assumed that the distribution tar is already in the user's home directory.
8	Enter: **tar xvf ~/ASTERPGS-PrBeta34pl1.tar**	The ASTER PGS team provided pre-beta science software patch will unpack.	It is assumed that the patch tar is already in the user's home directory.
9	Enter: **APGS_install.sh**	The software will install.	
10	Enter: **vi run/exec/add_pci_paths_.pl**	This perl script had a bug in it. It had an extra comma in the 'print' statement of lines 78-93.	
11	Enter: **cd store/bts/test**		
12	Enter: **source ../../../run/exec/ASTER_PGS.cshrc**	The science software environment is set.	
13	Enter: **rehash**		
14	Enter: **bts_test.sh**	The test suite for the Brightness Temperature PGE will execute. Two IDL scripts will be created, 'tmp_8.idl' and 'tmp_9.idl'.	Messages will be displayed about each test that is being executed.
15	Enter: **idl tmp_8.idl**	The Brightness Temperature for bands 10-14 will be displayed along will the original data. There will also be some lookup table values output to the window that the idl command was run in, the last two columns of output should agree to within less than +/-1.	
16	Enter: **exit**	exit out of IDL	
17	Enter: **idl tmp_9.idl**	The output is similar to the above output.	
18	Enter: **exit**	exit out of IDL	
19	Logoff the SSIT workstation	Successful logoff	

5.6.3 Test DAAC Toolkit in DAAC Environment Test Procedures (TS001.003)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: < userid from EDF> on the AIT workstation at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	'Enter Password:' will be displayed on the screen.	
2	Enter: <password> on the AIT workstation at EDF.	'host name {user name}:' will be displayed.	
3	Follow the instructions in the 'README' file that is delivered with the software, making sure to use the option that save results to a log file.	Review the log file, the bottom of the log should read 'Toolkit installation successful'.	The instructions might be the following commands : cd $PGSHOME bin/INSTALL -log <log-filename>
4	Enter: cd <directory where science algorithm is stored>	The working directory will change to where the science algorithm is stored.	
5	Enter: make	The algorithm will compile without errors.	
6	Enter: <science algorithm command line> > <output-filename> (This is an example of redirection to capture results)	The algorithm will run without errors.	There may be many different ways to save the results of running the algorithm. These include: 1. Redirection of standard output (algorithm > output file). 2. Automatic creation of an output file by the algorithm.
7	Enter: diff <sample output provided> <output-filename>	Both results will match.	
8	Enter: lp -dstlhp <log-filename>	Compilation and log messages will be printed.	
9	Enter: lp -dstlhp <output-filename>	Toolkit return messages and algorithm results will be printed.	
10	Enter: exit	Successful logoff	

5.6.4 Successful Compile Using SCF Toolkit Test Procedures (B03.04.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** on dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed on the screen.	
2	Enter: **<password>**.	'host name {user name}:' will be displayed.	
3	Enter: **source /lr1_IT/AI_T/toolkit/PGSTK/bin/pgs-dev-env.csh**	The SCF toolkit environment is set.	
4	Enter: **setenv PGSTK_TST_SRC /lr1_IT/AI_T/TOOLKIT/test**	The test driver source directory environment variable is set.	This variable is needed by the test driver makefiles.
5	Enter: **setenv PGSTK_TST_BIN .**	The test driver binary directory environment variable is set.	This variable is needed by the test driver makefiles.
6	Enter: **cd $PGSTK_TST_SRC/CBP**	Change directory to the test driver to be used.	
7	Enter: **make PGS_CBP_Earth_CB_Vector_Driver_c**	The driver will compile and a binary will be created.	Using 'C' driver.
8	Enter: **bcheck -all PGS_CBP_Earth_CB_Vector_Driver_c < PGS_CBP_Earth_CB_Vector_Driver.in**	The test driver will be run through the memory leak detection tool 'bcheck', which is a batch interface to the Runtime Checking feature of 'dbx'. 'dbx' is supplied as part of SPARCworks. An output file will be created with the results: PGS_CBP_Earth_CB_Vector_Driver_c.errs	bcheck will detect out of bounds indexing by detecting the following: 1. Read from unallocated memory 2. Write to unallocated memory as stated on page 19-220 of the 'SPARCworks - Debugging a Program' manual.
9	Enter: **more PGS_CBP_Earth_CB_Vector_Driver_c.errs**	The memory leak detection results will be displayed.	
10	Enter: **make PGS_CBP_Earth_CB_Vector_Driver_f**	The driver will compile and a binary will be created.	Using 'FORTRAN' driver.
11	Enter: **bcheck -all PGS_CBP_Earth_CB_Vector_Driver_f < PGS_CBP_Earth_CB_Vector_Driver.in**	The test driver will be run through the memory leak detection tool 'bcheck', which is a batch interface to the Runtime Checking feature of 'dbx'. An output file will be created with the results: PGS_CBP_Earth_CB_Vector_Driver_f.errs	'dbx' is supplied as part of SPARCworks.

12	Enter: **more PGS_CBP_Earth_CB_Vector_Driver_f.errs**	The memory leak detection results will be displayed.	
13	Logoff workstation	Successful logoff	

5.6.5 Unsuccessful Compile Using SCF Toolkit Test Procedures (B03.04.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** on dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed on the screen.	It is assumed that test case 5.6.2 has been done, so the software is installed.
2	Enter: **<password>**.	'host name {user name}:' will be displayed.	
3	Enter: **cd /data3/aster**		
4	Enter: **source run/exec/ASTER_PGS.cshrc**	The science software environment is set.	
5	Enter: **cd store/bts**		
6	Enter: **vi bts_main.c**	The science algorithm code will appear in the vi editor.	
7	Enter: **/^main**	This will search for the first line the starts with ‘main’, which is the start of the main program.	
8	Remove the last parenthesis, ‘**)**’, from this line.	A syntax error is induced.	
9	Exit the editor.		
10	Enter: **make**	Many errors will be displayed, starting with: "bts_main.c", line 117: syntax error before or at: {	
11	Go into the editor and put the parenthesis back.	The code is back to its original form.	
12	Logoff workstation	Successful logoff	

5.6.6 Successful Compile Using DAAC Toolkit Test Procedures (B03.05.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** on dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed on the screen.	
2	Enter: **<password>**.	'host name {user name}:' will be displayed.	
3	Enter: **source /lr1_IT/AI_T/TOOLKIT/ bin/sun5/pgs-dev-env.csh**	The DAAC toolkit environment is set.	
4	Enter: **setenv PGSTK_TST_SRC /lr1_IT/daac_test_drivers**	The test driver source directory environment variable is set.	This variable is needed by the test driver makefiles.
5	Enter: **setenv PGSTK_TST_BIN .**	The test driver binary directory environment variable is set.	This variable is needed by the test driver makefiles.
6	Enter: **setenv CSSLIB /lr1_IT/CSS/lib**	The event logger library environment variable is set.	This variable is needed by the test driver makefiles.
7	Enter: **cd $PGSTK_TST_SRC/CBP**	Change directory to the test driver to be used.	
8	Enter: **make PGS_CBP_Earth_CB_Vector_Driver_c**	The driver will compile and a binary will be created.	Using 'C' driver.
9	Enter: **bcheck -all PGS_CBP_Earth_CB_Vector_Driver_c < PGS_CBP_Earth_CB_Vector_Driver.in**	The test driver will be run through the memory leak detection tool 'bcheck', which is a batch interface to the Runtime Checking feature of 'dbx'. 'dbx' is supplied as part of SPARCworks. An output file will be created with the results: PGS_CBP_Earth_CB_Vector_Driver_c.errs	bcheck will detect out of bounds indexing by detecting the following: 1. Read from unallocated memory 2. Write to unallocated memory as stated on page 19-220 of the 'SPARCworks - Debugging a Program' manual.
10	Enter: **more PGS_CBP_Earth_CB_Vector_Driver_c.errs**	The memory leak detection results will be displayed.	
11	Enter: **make PGS_CBP_Earth_CB_Vector_Driver_f**	The driver will compile and a binary will be created.	Using 'FORTRAN' driver.
12	Enter: **bcheck -all PGS_CBP_Earth_CB_Vector_Driver_f < PGS_CBP_Earth_CB_Vector_Driver.in**	The test driver will be run through the memory leak detection tool 'bcheck', which is a batch interface to the Runtime Checking feature of 'dbx'. An output file will be created with the results: PGS_CBP_Earth_CB_Vector_Driver_f.errs	'dbx' is supplied as part of SPARCworks.

13	Enter: **more PGS_CBP_Earth_CB_Vector_Driver_f.errs**	The memory leak detection results will be displayed.	
14	Logoff workstation	Successful logoff	

5.6.7 Unsuccessful Compile Using DAAC Toolkit Test Procedures (B03.05.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: **<login id>** on dps3sunedf.gsfc.nasa.gov.	'Enter Password:' will be displayed on the screen.	
2	Enter: **<password>**.	'host name {user name}:' will be displayed.	
3	Enter: **source /lr1_IT/AI_T/TOOLKIT/bin/sun5/pgs-dev-env.csh**	The DAAC toolkit environment is set.	
4	Enter: **setenv PGSTK_TST_SRC /lr1_IT/AI_T/TOOLKIT/test**	The test driver source directory environment variable is set.	This variable is needed by the test driver makefiles.
5	Enter: **setenv PGSTK_TST_BIN .**	The test driver binary directory environment variable is set.	This variable is needed by the test driver makefiles.
6	Enter: **cd $PGSTK_TST_SRC/CBP**	Change directory to the test driver to be used.	
7	Enter: **vi PGS_CBP_Earth_CB_Vector_Driver_c.c**	The test driver code will appear in the vi editor.	
8	Enter: **/main**	This will search for the first line with the word 'main', which is the start of the main program.	
9	Remove the parenthesis, '**(**', from this line.	A syntax error is induced.	
10	Exit the editor.		
11	Enter: **make PGS_CBP_Earth_CB_Vector_Driver_c**	Many errors will be displayed, starting with: "PGS_CBP_Earth_CB_Vector_Driver_c.c", line 91: undefined or not a type: main	
12	Go into the editor and put the parenthesis back.	The code is back to its original form.	
13	Logoff workstation	Successful logoff	

5.6.8 ANSI Certified Compiler/Linker Test Procedures (T03-01.07.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	This test runs the makefiles and executes scripts for the compilation, loading and execution of science software provided by SCF. Software algorithms developed in C, Ada, and FORTRAN programming languages compliance with the ANSI standard.		This test case was found to be redundant with part of test case 5.2 (TS002.003), 5.4 (TS002.005), and 5.5 (TS002.006). Refer to the testcases mentioned above for the detail test steps.

5.6.9 ANSI Certified Compilers/Linkers Error Test Procedures (T03-01.07.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	This test runs the makefiles and executes scripts for the compilation, loading and execution of science software provided by SCF. Software algorithms developed in C, Ada, and FORTRAN programming languages **not** compliance with the ANSI standard shall be detected		This test case was found to be redundant with part of test case 5.2 (TS002.003), 5.4 (TS002.005), and 5.5 (TS002.006). Refer to the testcases mentioned above for the detail test steps.

5.6.10 Standard Enforcement Test Procedures (T03-01.07.05)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	This test runs the SCF science software against ECS standards checking software. Standards checkers include code checkers, and any other tools which confirm compliance to ECS standards. SCF software is tested for completeness and correct format.		This test case was found to be redundant with part of test case 5.2 (TS002.003), 5.5 (TS002.006) and 5.6 (TS002.007). Refer to the testcases mentioned above for the detail test steps.

5.6.11 Standard Enforcement Error Test Procedures (T03-01.07.06)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	This test runs the SCF science software against ECS standards checking software. Standards checkers include code checkers, and any other tools which confirm compliance to ECS standards. SCF software is **not** compliance with the ECS standard shall be detected .		This test case was found to be redundant with part of test case 5.2 (TS002.003), 5.5 (TS002.006) and 5.6 (TS002.007). Refer to the testcases mentioned above for the detail test steps.

5.7 PDPS Thread (T6)

5.7.1 Science Processing Documentation Test Procedures (TS003.008)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation at EDF in the DAAC environment	Successful login	
2	Set the enviroment display using the command '**setenv DISPLAY + ip address of terminal'**		
3	Enter '**Mosaic &** ' to start the Internet information browser and World Wide Web Client.	NCSA Mosaic : Document view / Home page window will be displayed on the screen.	
4	Click on the file option and select ' **Open URL**'	A NASA mosaic : Open Document window will be displayed on the screen.	
5	Enter ' **http:// edhs1.gsfc.nasa.gov'** in the URL to open entry row and click on open.	TheECS Data Handling System (EDHS) document appears.	
6	At the lower left hand corner of the page click on toolkits.	SDP toolkit page appears.	
7	Click on '**SDP toolkit Primer'**	SDP toolkit Primer for the ECS Project document is displayed.	
8	Browse the On-line documentation	Verify that documentation is available for each AI &T tool.	
9	Logoff the AIT workstation.	Successful logoff	

5.7.2 Science Processing Operating Sys. and Utilities Test Procedures (TS003.006)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation at EDF<dps3sunedf> in the DAAC environment	Successful login	
2	Enter '**ps -ef | grep $$**' to check the shell that is running.	The C shell will be identified with the -csh (csh)	
3	Enter '**ksh**' to invoke the Korn shell	The Korn shell shall be idenitified with the '$' prompt	
4	Repeat step 2 to check the shell that is running.	The korn shell shall be identified with 'ksh'	
5	Enter '**sh'** to invoke the bourne shell	A dollar ($) is displayed as the prompt.	
6	Repeat step 2 to check the shell that is running	The Bourne shell shall be identified with the sh	
7	Enter '**csh**' to return to the C shell		
8	Enter **'which emacs'** to verify if the emacs utility is installed	the path /usr/local/bin /emacs shall be displayed	
10	Enter ' **which tar**' to verify if the tar utility is installed	The path /bin/tar shall be displayed	
11	Enter ' **which vi**' to verfiy if the vi utility is installed	The path /bin/tar shall be displayed	
12	Enter **' vi '** to invoke the vi editor.	The path /bin/vi shall be displayed	
13	Enter ' **which imake** ' to verfiy if the imake utility is installed	The path /usr/openwin/bin/imake shall be displayed	
14	Enter ' **which prof** ' to verify if the prof utility is installed	The path /usr/ccs/bin/prof shall be displayed	
15	Enter ' **which nm** ' to verify if the nm utility is installed	The path /usr/ccs/bin/nm shall be displayed	
16	Enter ' **which man** ' to verify if the man utilty is installed	The path /bin/man shall be displayed	
17	Enter ' **which gprof** ' to verfiy if the gprof utility is installed	'The path /usr/ccs/bin/gprof shall be displayed	
18	Enter ' **which lex** ' to verify if the lex utility is installed	'The path /usr/ccs/bin/lex shall be displayed	
19	Enter ' **which yacc** ' to verify if the yacc utility is installed	The path /usr/ccs/bin/yacc shall be displayed	
20	Enter ' **which make '** to verify if the make utility is installed	The path /usr/ccs/bin/make shall be displayed	
21	Enter ' **which perl** ' to verify if the perl utility is installed	The path /tools/bin/perl shall be displayed	
22	Enter ' **which gzip** ' to verfiy if the gzip utility is installed	The path /usr/local/bin/gzip shall be displayed	
23	Logoff the AIT workstation	Successful logoff	

5.7.3 Processing System Initialization and Shutdown Test Procedures (TS003.005)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation at EDF in the DAAC environment (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	Successful login	
2	Enter the commands to initialize the processing system in the orderly manner and monitor the system initialization.	The processing system will be successfully initialized	
3	Enter the commands to shutdown the processing system and monitor the system shutdown	The processing system will be successfully shutdown	
4	Logoff the AIT workstation	Successful logoff	

5.7.4 Status of Data Processing Request Test Procedures (TS003.004)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <**login id**> onto the AIT workstation dps3sunedf.gsfc.nasa.gov. at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	'Enter Password' will be displayed	
2	Enter <**password**>		
3	Enter "**cd /data/autotree1/autosys/bin**"		
4	Set the enviroment display by entering "**setenv DISPLAY** <**ip address >**"		
5	Start the autosys GUI display by entering "**autosc &**"	AutoSys GUI Control Panel will be displayed on the screen.	
6	Single click on the "**Job Definition**" button in the Control Panel	The Job Definition dialog appears on the screen	
7	In the Job Name field, enter the job's name <**"Jb1"**> as the tittle of the job to run or place a "**%**" in the job name field and click on thr search button to select the job name if it exists.	Clciking on search will display the selection list pop-up window. Before proceeding close the window.	
8	In the Job Type field, single click on the **Command** radio button.		
9	In the Execute on Machine field , enter "**dps3sunedf**" as the name of the machine on which the command will be executed.		
10	In the UNIX command field enter < **/home/jbrewste/ a.out >** as the command to be executed		
11	At the top of the Job Definition dialog, single click on the "**save**" button.		
12	Single click on the "**Send Event**" button on the Autosys control panel.	Send Event dialog appears on the screen	
13	Enter "**STARTJOB**" in the Type of Event name field.		
14	In the Job Name field , enter **<jb1>** as the job's name		
15	Single click on the "**Execute"** button		

16	At the unix prompt enter <**autocons &** > to activate the Autosys Job Activity Console	The Autosys Job Activity Panel is displayed.	
17	Highlight the job name by clicking on <**jb1**> . Click on <**Event Report**>	Verify that the Report displayed is for the job submitted.	
18	Check status column for status of the job after the job is completed	The status shall be success if they are no errors.	
19	Restart the job by clicking on the job name to highlight it and clicking on '<**Start Job**> at the bottom left of the screen.	a question window will pop up	
20	Click on 'Yes" to process the job		
21	Wait until the Status of the job change from its present state to "**starting**" and then click on the Kill Job button.	a question window will pop up	
22	Click on "Yes" to process the job	In the Event Report window [KillJOB] will be displayed. In approximately 30 seconds the status shall change to "Terminated and the Alarm button will turn RED."	
23	Reset the Alarm by clicking on the Alarm button	The Alarm manager window pops up. Click on the cancel button.	
24	Logoff the AIT workstation	Successful logoff	

5.7.5 Unsuccessful Scheduling Test Procedures (B03.06.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <login-id>onto dps3sunedf.gsfc.nasa.gov	Successful login.	The production plan, containing science algorithm inputs, control parameters, resource validation, resources utilization, predicted processing times and simulated TRMM data products, will be prepared and installed on the AIT workstation. Have the other user to submit the processing request from other workstation at the DAAC.
2	Enter <password>	Password accepted	
3	Enter: setenv DISPLAY ncd#.hitc.com:0.0	This sets the environment for the screen to display all functions to the workstation that you are logged onto.	
4	Enter: cd /data/autotree1/autosys/bin	This links to the AutoSys data directory.	
5	Start the autosys GUI display by entering: autosc &	AutoSys GUI Control Panel will be displayed on the screen	
6	Enter: autocons &	This AutoSys Job Activity Console	
7	Single click on the "Job Definition" button in the Control Panel	The Job Definition dialog appears on the screen	
8	Click "OK" on the small pop-up window	This makes the pop-up window disappear.	
9	In the Job Name field, enter the job's name <unique_name> as the title of the job to run.		
10	In the Job Type field, "Command" should be selected already, but if it isn't, single click on it.	"Command" will be yellow.	
11	Tab down to the "Execute on Machine" field, enter: dps3sunedf	This is the machine that you are currently logged onto.	
12	Tab to the "Unix Command", enter: /home/kcampbel	This is the executable command for job kc#.	
13	Highlight the <unique_name> job in the AutoSys Console window and single click on "Start Job" button.	Job <unique_name> will go into "INACTIVE" status.	

14	The Alarm button will turn 'red'	<unique_name> job will error, message on dps3sunedf will state that it is missing.	This is due to not having a complete UNIX Command for the job. (/home/kcampbel is incomplete. You need an output filename.
15	Click the red "ALARM"	The Alarm Manager will appear.	
16	Click on "Acknowleged" and and on "Cancel" in the Alarm Manager window.	Alarm Manager window will disappear.	
17	Logoff the AIT workstation.	Successful logoff.	

5.7.6 Suspending Execution of a Scheduled Proc. Req. Test Procedures (B03.06.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <**login id**> onto the AIT workstation dps3sunedf.gsfc.nasa.gov. at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	'Enter Password' will be displayed	
2	Enter <**password**>		
3	Enter "**cd /data/autotree1/autosys/bin**"		
4	Set the enviroment display by entering "**setenv DISPLAY** <**ip address >**"		
5	Start the autosys GUI display by entering "**autosc &**"	AutoSys GUI Control Panel will be displayed on the screen.	
6	Single click on the "**Job Definition**" button in the Control Panel	The Job Definition dialog appears on the screen	
7	In the Job Name field, enter <**jb1**> as the tittle of the job to run or place a "**%**" in the job name field and click on the search button to select the job name if it exists.	Clciking on search will display the selection list pop-up window. Before proceeding close the window.	
8	In the Job Type field, single click on the **Command** radio button.		
9	In the Execute on Machine field , enter "**dps3sunedf**" as the name of the machine on which the command will be executed.		
10	In the UNIX command field, enter the command < **/home/jbrewste/a.out**> as the command to be executed		
11	At the top of the Job Definition dialog, single click on the "**save**" button. Note if job exists an error will occurr. Clear error and go to step 12.		
12	Single click on the "**Send Event**" button on the Autosys control panel.	Send Event dialog appears on the screen	
13	Enter "**STARTJOB**" in the Type of Event name field.		
14	In the Job Name field , enter **<jb1>** as the job's name		
15	Single click on the "**Execute"** button		

16	Repeat steps 6 thru 15 inorder to process two more jobs "**jb2 & jb3**". Replace <**jb1**> with <**jb2>** and then with **< jb3**>. Note for <**jb2**> . Please enter <**SUCCESS(jb1**) > in the JOB Defintion control panel starting condiction field. For <**jb3**> enter <**SUCCESS(jb2**)> .		
17	At the unix prompt enter <**autocons &** > to activate the Autosys Job Activity Console	The Autosys Job Activity Panel is displayed.	
18	Verify that the jobs are listed in the job name as part of the list of jobs being run or completed the run . Wait until all three jobs are finished before going to next step	Name of job, unix command and the machine the job is running on shall be displayed.	
19	Check status column for status of the jobs.	The status shall be success if they are no errors.	
20	Restart the jobs in the following sequence <**jb1, ,jb2**, **jb3**> by clicking on the job's name to highlight indiviually them and clicking the <**Start Job** > button.	A question window will pop up for each job. Click on <**yes**>.	
21	Highlight <**jb2**> and click on the <**ON HOLD** >button while <**jb2**> still has <**Start Job**> in the Event Report window.	After a few seconds the < ON_HOLD> will appear in the status field	
22	Wait until <jb1> change to the <**success** >state and then Click the <**Off Hold**> button to take the <**jb2**> off hold.	A question window will pop up.	
23	Click on <**yes>**	Note the status for the job change from On hold to running.	
24	Logoff the AIT workstation	Successful logoff	

5.7.7 Resume Execution of a Scheduled Proc. Req. Test Procedures (B03.06.04)

Note: This test is identical to 5.7.6. Therefore , there is no need to re-run the Test if 5.7.6 is successful.

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <**login id**> onto the AIT workstation dps3sunedf.gsfc.nasa.gov. at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	'Enter Password' will be displayed	
2	Enter <**password**>		
3	Enter "**cd /data/autotree1/autosys/bin**"		
4	Set the enviroment display by entering "**setenv DISPLAY <ip address >**"		
5	Start the autosys GUI display by entering "**autosc &**"	AutoSys GUI Control Panel will be displayed on the screen.	
6	Single click on the "**Job Definition**" button in the Control Panel	The Job Definition dialog appears on the screen	
7	In the Job Name field, enter <**jb1**> as the tittle of the job to run or place a "**%**" in the job name field and click on the search button to select the job name if it exists.	Clciking on search will display the selection list pop-up window. Before proceeding close the window.	
8	In the Job Type field, single click on the **Command** radio button.		
9	In the Execute on Machine field , enter "**dps3sunedf**" as the name of the machine on which the command will be executed.		
10	In the UNIX command field, enter the command < **/home/jbrewste/a.out**> as the command to be executed		
11	At the top of the Job Definition dialog, single click on the "**save**" button.		
12	Single click on the "**Send Event**" button on the Autosys control panel.	Send Event dialog appears on the screen	
13	Enter "**STARTJOB**" in the Type of Event name field.		

14	In the Job Name field , enter **<jb1>** as the job's name		
15	Single click on the "**Execute"** button		
16	Repeat steps 6 thru 15 for inorder to process two more jobs. Replace <**jb1**> with <**jb2 & jb3**>. Note for <**jb1**> please enter <**SUCCESS(jb1**) > in the JOB Defintion control panel starting condiction field. For <**jb2**> enter <**SUCCESS(jb2**)> .		
17	At the unix prompt enter <**autocons &** > to activate the Autosys Job Activity Console	The Autosys Job Activity Panel is displayed.	
18	Verify that the jobs are listed in the job name as part of the list of jobs being run or completed the run . Wait until all three jobs are finished before going to next step	Name of job, unix command and the machine the job is running on shall be displayed.	
19	Check status column for status of the jobs.	The status shall be success if they are no errors.	
20	Restart the jobs in the following sequence <**jb1, ,jb2**, **jb3**> by clicking on the job's name to highlight indiviually and clicking the <**Start Job** > button.	A question window will pop up for each job. Click on <**yes**>.	
21	Highligh <**jb2**> and click on the <**ON HOLD** >button	After a few seconds the < ON_HOLD> will appear in the status field	
22	Click on the <**Off Hold**> button to take the job off hold.	A question window will pop up.	
23	Click on <**yes>**	note the status for the job change from On hold to running.	
24	Logoff the AIT workstation	Successful logoff	

5.7.8 Canceling Execution of a Proc. Req. Test Procedures (B03.06.05)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <**login id**> onto the AIT workstation dps3sunedf.gsfc.nasa.gov. at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	'Enter Password' will be displayed	
2	Enter <**password**>		
3	Enter "**cd /data/autotree1/autosys/bin**"		
4	Set the enviroment display by entering "**setenv DISPLAY** <**ip address >**"		
5	Start the autosys GUI display by entering "**autosc &**"	AutoSys GUI Control Panel shall be displayed on the screen.	
6	Single click on the "**Job Definition**" button in the Control Panel	The Job Definition dialog appears on the screen	
7	In the Job Name field, enter the job's name <**"Jb1"**> as the tittle of the job to run or place a "**%**" in the job name field and click on thr search button to select the job name if it exists.	Clciking on search shall display the selection list pop-up window. Before proceeding close the window.	
8	In the Job Type field, single click on the **Command** radio button.		
9	In the Execute on Machine field , enter "**dps3sunedf**" as the name of the machine on which the command will be executed.		
10	In the UNIX command field enter < **/home/jbrewste/ a.out >** as the command to be executed		
11	At the top of the Job Definition dialog, single click on the "**save**" button.		
12	Single click on the "**Send Event**" button on the Autosys control panel.	Send Event dialog appears on the screen	
13	Enter "**STARTJOB**" in the Type of Event name field.		
14	In the Job Name field , enter **<jb1>** as the job's name		
15	Single click on the "**Execute"** button		
16	At the unix prompt enter <**autocons &** > to activate the Autosys Job Activity Console	The Autosys Job Activity Panel is displayed.	

17	Verify that the job is listed as one of the job being run	Name of job, unix command and the machine the job is running on shall be displayed.	
18	Check status column for status of the job after the job is completed	The status shall be success if they are no errors.	
19	Restart the job by clicking on the job name to highlight it.		
20	Click on Event Report . Click on 'Start Job' at the bottom left of the screen.	a question window shall pop up	
21	Click on 'Yes" to process the job		
22	Wait until the Status of the job change from its present state to "**starting**" and then click on the Kill Job button.	a question window shall pop up	
23	Click on "Yes" to process the job	In the Event Report window [KillJOB] will be displayed. Alfter a few seconds the status shall state that the job is terminated and the Alarm button shall turn RED.	
24	Reset the Alarm by clicking on the Alarm button	The Alarm manager window pops up. Click on the cancel button.	
25	Logoff the AIT workstation	Successful logoff	

5.7.9 Queue Test Procedures (B03.06.06)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <**login id**> onto the AIT workstation dps3sunedf.gsfc.nasa.gov. at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	'Enter Password' will be displayed	
2	Enter <**password**>		
3	Enter "**cd /data/autotree1/autosys/bin**"		
4	Set the enviroment display by entering "**setenv DISPLAY <ip address >**"		
5	Start the autosys GUI display by entering "**autosc &**"	AutoSys GUI Control Panel will be displayed on the screen.	
6	Single click on the "**Job Definition**" button in the Control Panel	The Job Definition dialog appears on the screen	
7	In the Job Name field, enter the job's name <**"Jb1"**> as the tittle of the job to run or place a "**%**" in the job name field and click on thr search button to select the job name if it exists.	Clciking on search will display the selection list pop-up window. Before proceeding close the window.	
8	In the Job Type field, single click on the **Command** radio button.		
9	In the Execute on Machine field , enter "**dps3sunedf**" as the name of the machine on which the command will be executed.		
10	In the UNIX command field enter < **/home/jbrewste/ a.out >** as the command to be executed		
11	At the top of the Job Definition dialog, single click on the "**save**" button.		
12	Single click on the "**Send Event**" button on the Autosys control panel.	Send Event dialog appears on the screen	
13	Enter "**STARTJOB**" in the Type of Event name field.		
14	In the Job Name field , enter **<jb1>** as the job's name		
15	Single click on the "**Execute"** button		

16	At the unix prompt enter <**autocons &** > to activate the Autosys Job Activity Console	The Autosys Job Activity Panel is displayed.	
17	Verify that the job is listed as one of the job being run	Name of job, unix command and the machine the job is running on shall be displayed.	
18	Check status column for status of the job after the job is completed	The status will either shall be success if they are no errors.	
19	Restart the job by clicking on the job name to highlight it.		
20	Click on Event Report .	Verify that the status report shows that the job was processed correctly. Note the starting, running and success time.	
21	In the Job Name field of the Job Definition Dialog enter **"JB1**". Single click on the "**Search**" button.	Notice the Unix command field and the Execute on Machine field are filled in.	
21	Single click on the <**ADV Features** > button at the top of the JOB Definition dialog	The Job Definition Advanced Features dialog appears.	
22	In the Que Priority field enter 80		
23	Single click on "**Save & Dismiss**" of the Job Defintion Advanced Features dialog		
24	On the Autosys Job Activity Console click on "**jb1**" to highligh it.		
25	Single click on the "Start Job"button	A question window will pop up	
26	Click on 'Yes" to process the job		
27	Notice the Status of the job change from its present state "succes" to "**QUE_WAIT"**. Also the alarm button turn red.		
28	At the unix prompt enter "autolog -J jb1"	a llisting of the log file for jb1 is printed to the screen	
29	Logoff the AIT workstation	Successful logoff	

5.7.10 Priority Test Procedures (B03.06.07)

Note: This Test is identical to 5.7.9. Therefore, there is no need to run it if you already run 5.7.9.

Step No.	Step Description/Operator Action	Expected Results
1	Enter <**login id**> onto the AIT workstation dps3sunedf.gsfc.nasa.gov. at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	'Enter Password' will be displayed
2	Enter <**password**>	
3	Enter "**cd /data/autotree1/autosys/bin**"	
4	Set the enviroment display by entering "**setenv DISPLAY <ip address >**"	
5	Start the autosys GUI display by entering "**autosc &**"	AutoSys GUI Control Panel will be displayed on the screen.
6	Single click on the "**Job Definition**" button in the Control Panel	The Job Definition dialog appears on the screen
7	In the Job Name field, enter the job's name <**"Jb1"**> as the tittle of the job to run or place a "**%**" in the job name field and click on thr search button to select the job name if it exists.	Clciking on search will display the selection list pop-up window. Before proceeding close the window.
8	In the Job Type field, single click on the **Command** radio button.	
9	In the Execute on Machine field , enter "**dps3sunedf**" as the name of the machine on which the command will be executed.	
10	In the UNIX command field enter < **/home/jbrewste/ a.out >** as the command to be executed	
11	At the top of the Job Definition dialog, single click on the "**save**" button.	
12	Single click on the "**Send Event**" button on the Autosys control panel.	Send Event dialog appears on the screen
13	Enter "**STARTJOB**" in the Type of Event name field.	
14	In the Job Name field , enter **<jb1>** as the job's name	
15	Single click on the "**Execute"** button	
16	At the unix prompt enter <**autocons &** > to activate the Autosys Job Activity Console	The Autosys Job Activity Panel is displayed.
17	Verify that the job is listed as one of the job being run	Name of job, unix command and the machine the job is running on shall be displayed.
18	Check status column for status of the job after the job is completed	The status will either shall be success if they are no errors.
19	Restart the job by clicking on the job name to highlight it.	

20	Click on Event Report .	Verify that the status report shows that the job was processed correctly. Note the starting, running and success time.
21	In the Job Name field of the Job Definition Dialog enter **"JB1**". Single click on the "**Search**" button.	Notice the Unix command field and the Execute on Machine field are filled in.
21	Single click on the <**ADV Features** > button at the top of the JOB Definition dialog	The Job Definition Advanced Features dialog appears.
22	In the Que Priority field enter 80	
23	Single click on "**Save & Dismiss**" of the Job Defintion Advanced Features dialog	
24	On the Autosys Job Activity Console click on "**jb1**" to highligh it.	
25	Single click on the "Start Job"button	A question window will pop up
26	Click on 'Yes" to process the job	
27	Notice the Status of the job change from its present state "succes" to "**QUE_WAIT"**. Also the alarm button turn red.	
28	At the unix prompt enter "autolog -J jb1"	a llisting of the log file for jb1 is printed to the screen
29	Logoff the AIT workstation	Successful logoff

5.7.11 Invalid Cancellation Test Procedures (B03.06.08)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <login-id>onto dps3sunedf.gsfc.nasa.gov	Successful login.	The production plan, containing science algorithm inputs, control parameters, resource validation, resources utilization, predicted processing times and simulated TRMM data products, will be prepared and installed on the AIT workstation. Have the other user to submit the processing request from other workstation at the DAAC.
2	Enter <password>	Password accepted	
3	Enter: setenv DISPLAY ncd#.hitc.com:0.0	This sets the environment for the screen to display all functions to the workstation that you are logged onto.	
4	Enter: cd /data/autotree1/autosys/bin	This links to the AutoSys data directory.	
5	Start the autosys GUI display by entering: autosc &	AutoSys GUI Control Panel will be displayed on the screen	
6	Enter: autocons &	This AutoSys Job Activity Console	
7	Single click on the "Job Definition" button in the Control Panel	The Job Definition dialog appears on the screen	
8	Click "OK" on the small pop-up window	This makes the pop-up window disappear.	
9	In the Job Name field, enter the job's name <"kc20"> as the title of the job to run.		
10	In the Job Type field, "Command" should be selected already, but if it isn't, single click on it.	"Command" will be yellow.	
11	Tab down to the "Execute on Machine" field, enter: dps3sunedf	This is the machine that you are currently logged onto.	
12	Tab to the "Unix Command", enter: /home/kcampbel/a.out	This is the executable command for job kc20.	

13	Single click "Save"	Job is saved as kc20 and will appear in the Job Activity Console.	
14	Single click on "Start Job"	kc20 status will go from INACTIVE to STARTING.	
15	Single click on job kc20, single click on Event Report in Report Window at bottom of Job Activity Console.	The job will highlight, activity of the job will be be displayed.	
16	Single click on Send Event on the AutoSys Window.	Send Event Panel will be displayed.	
17	Single click on Search Double click on KILLJOB	Type of Event will be KILLJOB.	
18	At the Job Name field, enter a bogus job name: kc30	Job Name is kc50.	
19	Click on Execute	On your dps3sunedf console, this message will appear: SendCmd: sendevent -E KILLJOB -p 10 -J kc30 Invalid Job Name: kc30	
20	Print the history log file.	The history log file will be printed.	It should reflect the invalid cancellation of the processing request submitted by another user.
21	Logoff the AIT workstation.	Successful logoff.	

5.7.12 Invalid Priority Change Test Procedures (B03.06.09)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <login-id>onto dps3sunedf.gsfc.nasa.gov	Successful login.	The production plan, containing science algorithm inputs, control parameters, resource validation, resources utilization, predicted processing times and simulated TRMM data products, will be prepared and installed on the AIT workstation. Have the other user to submit the processing request from other workstation at the DAAC.
2	Enter <password>	Password accepted	
3	Enter: setenv DISPLAY ncd#.hitc.com:0.0	This sets the environment for the screen to display all functions to the workstation that you are logged onto.	
4	Enter: cd /data/autotree1/autosys/bin	This links to the AutoSys data directory.	
5	Start the autosys GUI display by entering: autosc &	AutoSys GUI Control Panel will be displayed on the screen	
6	Enter: autocons &	This AutoSys Job Activity Console	
7	Single click on the "Job Definition" button in the Control Panel	The Job Definition dialog appears on the screen	
8	Click "OK" on the small pop-up window	This makes the pop-up window disappear.	
9	In the Job Name field, enter the job's name <"kc#"> as the title of the job to run.		
10	In the Job Type field, "Command" should be selected already, but if it isn't, single click on it.	"Command" will be yellow.	
11	Tab down to the "Execute on Machine" field, enter: dps3sunedf	This is the machine that you are currently logged onto.	
12	Tab to the "Unix Command", enter: /home/kcampbel/a.out	This is the executable command for job kc#.	
13	Single click "Save"	Job is saved as kc# and will appear in the Job Activity Console.	

14	Single click on "Start Job"	kc# status will go from INACTIVE to STARTING.	
15	Single click on job kc#, single click on Event Report in Report Window at bottom of Job Activity Console.	The job will highlight, activity of the job will be be displayed.	
16	Single click on Send Event in the AutoSys Job Activity window.	Send Event Panel will be displayed.	
17	Single click on Change Priority	Change Priority will turn to yellow and the Queue Prority box will have black letters.	
18	For Job Name, put in job number: kc#		
19	In the Queue Priority box enter: 200		
20	Click on Execute	Pop-up window will appear: "Queue Priority is invalid, must be numeric 1 - 99".	The dps3sunedf window will also have an error message from the Send Event window.
21	Print the history log file.	The history log file will be printed.	It should reflect the invalid cancellation of the processing request submitted by another user.
22	Logoff the AIT workstation.	Successful logoff.	

5.7.13 Invalid Change of Queue Test Procedures (B03.06.10)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter <login-id>onto dps3sunedf.gsfc.nasa.gov	Successful login.	The production plan, containing science algorithm inputs, control parameters, resource validation, resources utilization, predicted processing times and simulated TRMM data products, will be prepared and installed on the AIT workstation. Have the other user to submit the processing request from other workstation at the DAAC.
2	Enter <password>	Password accepted	
3	Enter: setenv DISPLAY ncd#.hitc.com:0.0	This sets the environment for the screen to display all functions to the workstation that you are logged onto.	
4	Enter: cd /data/autotree1/autosys/bin	This links to the AutoSys data directory.	
5	Start the autosys GUI display by entering: autosc &	AutoSys GUI Control Panel will be displayed on the screen	
6	Enter: autocons &	This AutoSys Job Activity Console	
7	Single click on the "Job Definition" button in the Control Panel	The Job Definition dialog appears on the screen	
8	Click "OK" on the small pop-up window	This makes the pop-up window disappear.	
9	In the Job Name field, enter the job's name <"kc#"> as the title of the job to run.		
10	In the Job Type field, "Command" should be selected already, but if it isn't, single click on it.	"Command" will be yellow.	
11	Tab down to the "Execute on Machine" field, enter: dps3sunedf	This is the machine that you are currently logged onto.	
12	Tab to the "Unix Command", enter: /home/kcampbel/a.out	This is the executable command for job kc#.	
13	Single click "Advance Features"	Advance Feature window appears.	

14	Change Queue Priority to 10 and click the "Save&Dismiss" button.	Job kc# will go into the "INACTIVE" status.	
15	Highlight the kc# job in the AutoSys Console window and single click on "Start Job" button.	Job kc# will go into "QUE_WAIT" status.	
16	Click on "Send Event" from the AutoSys window.	Send Event window appears	
17	Click on "Search" in the Type of Event field.	All event types appear.	
18	Doubl Click "Change Status"	Type of Event will be Change Status. Pop-up window disappears.	
19	"Job Name" will be kc#		
20	Click on "Status" and type: terminated (lower case)	Pop-up window will appear: "Send Event was not Successful".	The dps3sunedf window will also have an error message from the Send Event window.
21	Retype in the "Status" field: TERMINATED (upper case) and also add Change_Status in the Type of Event field.	The "ALARM" in the AutoSys Job Console will turn red. A message will appear in the dps3sunedf window from the Send Event software.	
22	Click the red "ALARM"	The Alarm Manager will appear.	
23	Click on "Acknowleged" and and on "Cancel" in the Alarm Manager window.	Alarm Manager window will disappear.	
24	Job status of kc# will be "TERMINATED".		Job kc# will stay in this state.
25	Print the history log file.	The history log file will be printed.	It should reflect the invalid cancellation of the processing request submitted by another user.
26	Logoff the AIT workstation.	Successful logoff.	

5.7.14 Procedures (B03.07.01): Data Processing Fault Test

Step No.	Step Description / Operator Action	Expected Results	Observations / Comments
1	Enter <**login id**> on mss1hped at EDF in the DAAC environment.	'Enter Password' will be displayed	
2	Enter <**password**> on mss1hped.		
3	Enter : **cdtest** on mss1hped.	The directory will change to /Ir1_IT	
4	Enter: **setenv DISPLAY** <**ip address >** on mss1hped.		
5	Enter **ovw&** on mss1hped	The window for 'Openview' will show up.	System Management Center (SMC) tool will start to detect and locate the data processing machines faults.
6	Double click on '**EDF**' icon on the USA map.	The window for '**IPMap**' will show up.	
7	Double click on '**dps3sunedf**' icon on the IPmap window.	The window for '**dps3sunedf**' will show up.	
8	Enter <**login id**> on dps3sunedf at EDF in the DAAC environment. (Assuming that DAAC version PGS Toolkits and science software are loaded in the AIT workstation located in the DAAC environment)	'Enter Password' will be displayed	
9	Enter : **cd /data/autotree1/autosys/bin** on dps3sunedf		
10	Enter: **setenv DISPLAY** <**ip address >** on dps3sunedf		
11	At the unix prompt enter <**autosc &** > to activate the Autosys GUI.	AutoSys GUI will show up on the screen.	
12	At the unix prompt enter <**autocons &** > to activate the Autosys Job Activity Console GUI. Note: The following is a setup for submitting a processing request and be prepared to shutdown the dps3sunedf machine during before the execution	AutoSys Job Control Panel will show up on the screen.	
13	Single click on the "**Job Definition**" button in the Control Panel	The Job Definition dialog appears on the screen	

14	In the Job Name field, enter the job's name **ir1** as the tittle of the job to run.	Clciking on search will display the selection list pop-up window. Before proceeding close the window.	
15	In the Job Type field, single click on the **Command** radio button.		
16	In the Execute on Machine field , enter "**dps3sunedf**" as the name of the machine on which the command will be executed.		
17	In the UNIX command field enter: **/Ir1_IT/T6/code/ a.out**		
18	At the top of the Job Definition dialog, single click on the "**save**" button.		
19	Single click on the "**Send Event**" button on the Autosys control panel.	Send Event dialog appears on the screen	
20	Enter "**STARTJOB**" in the Type of Event name field.		
21	In the Job Name field , enter **ir1** as the job's name		
22	Single click on the "**Execute"** button		
23	Enter: **autorep -J Ir1 -d** on > TC7.14_log on dps3sunedf to dedirect the output of the event report to TC7.14_log	The event log file will be directed to TC7.14_Event_Rpt1.	
24	Shutdown the dps3sunedf machine before staus of the processing request changes from 'Starting' to 'Execution'.	The processing of the request will be halted.	
25	Check the status of 'dps3sunedf' in Openview	The icon of 'edf' on USA map will turn to red (means status is crtical/down). The icon (le0) in ' **dps3sunedf**' window will turn to red (means status is crtical/down). The icon '**dps3sunedf**' in '**IPMap**' window will turn to blue (means status is unknown)	
26	Bringup the dps3sunedf machine back again.		
27	Enter <**login id**> on dps3sunedf at EDF in the DAAC environment.	'Enter Password' will be displayed	
28	Enter : **cd /data/autotree1/autosys/bin** on dps3sunedf		
29	Enter: **setenv DISPLAY** <**ip address >** on dps3sunedf		

30	At the unix prompt enter <**autosc &** > to activate the Autosys Job Activity Consol	AutoSys GUI Control Panel will be displayed on the screen.	
31	At the unix prompt enter <**autocons &** > to activate the Autosys Job Activity Console	AutoSys GUI Control Panel will be displayed on the screen.	
32	Check the status for 'edf , leo, and dps3sun3edf icons.	The icon of 'edf' on USA map will turn to green. The icon (le0) in ' **dps3sunedf**' window will turn to green (means status is Normal/Up). The icon '**dps3sunedf**' in '**IPMap**' window will turn to green (means status is Normal/Up).	
33	Check the status of job name 'Ir1' on the 'Auotsys Job Activity Control' window.	The job status of ir1 will be [JOBFAILURE].	The event log file will contain the job status related information.
34	Enter: **autorep -J Ir1 -d** on > TC7.14_log on dps3sunedf to dedirect the output of the event report to TC7.14_log	The event log file will be directed to TC7.14_log.	
35	Logoff the AIT workstations	Successful logoff	

5.7.15 Queuing Fault Test Procedures (B03.07.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	This test has been merged with test 5.7.14 (B03.07.01) to comply with Ir1's PDPS scope and objective		For the detail, refer to test 5.7.14 (B03.07.01)

5.7.16 Planning Fault Test Procedures (B03.07.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	This test has been merged with test 5.7.14 (B03.07.01) fo comply with Ir1's PDPS scope and objective.		For the detail, refer to test case 5.7.14 (B03.07.01)

5.7.17 PGS Resource Utilization Report Verification Test Procedures (B03.06.12)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation at EDF in the DAAC environment. (Assuming the utilization report files from tests B03.06.01 through B03.06.10 are still on the AIT workstation)	Successful login.	This test will print the resource utilization reports generated from tests B03.06.01 through B03.06.10.
2	Access the directory of a utilization report file for test B03.06.01.	The directory of a utilization report file for test B03.06.01 will be located.	
3	Print the utilization report file for test B03.06.01 from that directory.	The utilization report file for test B03.06.01 will be printed.	The utilization report file should show the resources used during the execution of the requests.
4	Repeat steps 2 and 3 for B03.06.02, B03.06.03, B03.06.04, B03.06.05, B03.06.06, B03.06.07, B03.06.08, B03.06.09, B03.06.10.		
5	Logoff the AIT workstation.	Successful logoff.	

5.7.18 PGS Processing Log Verification Test Procedures (B03.06.11)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the AIT workstation at EDF in the DAAC environment. (Assuming the processing log files from tests B03.06.01 through B03.06.10 are still on the AIT workstation)	Successful login	This test will print the processing log files from tests B03.06.01 through B03.06.10 ran on the AIT workstation)
2	Access the directory of a processing log file for test B03.06.01.	The directory of a processing log file for test B03.06.01 will be located.	
3	Print the processing log file for test B03.06.01 from that directory.	The history log file for test B03.06.01 will be printed.	The procession log file should contain correct information for the activities which occurred during that test.
4	Repeat steps 2 and 3 for B03.06.02, B03.06.03, B03.06.04, B03.06.05, B03.06.06, B03.06.07, B03.06.08, B03.06.09, B03.06.10.		
5	Logoff the AIT workstation.	Successful logoff	

5.7.19 PGS Resource Utilization Report Verification Test Procedures (B03.06.12)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to **dps3sunedf** (IP address 192.150.28.116)	Successful login.	
2	Enter: **setenv DISPLAY ncd#.hitc.com:0.0**	Environment display is set.	
3	Enter: **cd /data/autotree1/autosys/bin**	This changes to the AutoSys directory.	
4	Enter: **autosc &**	Starts the graphical AutoSys interface.	
5	Enter: **autocons &**	Starts the AutoSys Job Activity Console.	
6	On the AutoSys Job Activity Console, select a job clicking once on the job. **(3166_816900580)**	Job is highlighted in black.	
7	From the command line on dps3sunedf, enter: **autorep -J 3166_816900580 -d**	This displays **Status**, **Time**, **Ntry, EventState**, **ProcessTime**, **Machine.**	Page 15-13 in the AutoSys Manual will assist in the variables that are available for the autorep command.
8	From the command line on dps3sunedf, enter: **autorep -J 3% -d**	The report will print all jobs that start with "3".	
9	From the command line on dps3sunedf, enter: **autorep -J kc% -d > outfile**	The report will write the output for all jobs beginning with **"kc"** to file **outfile**.	
10	From the command line on dps3sunedf, enter: **autorep -J kc% -s**	The report will print a **Summary Report** that displays Last Start, Last End, Status, Run #, and Priority.	
11	From the command line on dps3sunedf, enter: **autorep -J kc% -q**	This report will print a **Query Report** that displays job/machine specification.	
12	From the command line on dps3sunedf, enter: **autorep -J ALL**	This report displays all of the JobNames, LastStart,LastEnd, Status,Run, and Priority.	
13	From the command line on dps3sunedf, enter: **autolog -e**	This log file writes it's output to file : /data/autotree1/autosys/out/event_daemon.A31.	
14	From the command line on dps3sunedf, enter: **autoflags -a -i -o -d -v**	This prints information about AutoSys and your system's configuration.	
15	From the command line on dps3sunedf, enter: **ftp klingon.hitc.com <return>**	ftp mode is initiated	

16	Enter: **<password>**		
17	Enter: **put outfile**	outfile is ftp'ed to kcampbel over the net.	
18	Enter: **bye**	Exits ftp	
19	Close all AutoSys windows	Exits AutoSys	
20	From klingon xterm window, enter: **print outfile**	outfile is printed on halibut	
21	Enter: **exit**	Exits program	

5.7.20 PGS Processing Log Verification Test Procedures (B03.06.11)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	**This test case is covered in Test Case 7.17**		

5.8 Science Processing Suite Build (B2)

5.8.1 Ingestion of Delivery Package Test Procedures (BS001.001)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the SCF environment.	Successful login.	Steps involving e-mail notification or the transfer (ftp) of files from SCF to the DAAC environment may be omitted if this functionality has already been successfully verified during T2 (Messaging & File Transfer Thread) testing.
2	Send an e-mail notification (mailtool) containing the FTP address for a valid software delivery from SCF to DAAC.	The e-mail notification for a software delivery package will be transmitted to the DAAC.	
3	Log onto the AIT workstation at EDF in the DAAC environment.	Successful login.	
4	Receive an e-mail notification (mailtool) for a valid software delivery package at the DAAC.	The e-mail notification for a valid software delivery will contain the valid FTP address in the transfer directory.	
5	Retrieve the science delivery package electronically via Internet, using ftp, and place it in the appropriate directory.	The delivery package will be retrieved in the compressed tar format.	
6	Extract the contents of the delivery package tarfile, using the "**tar xvf** <**tarfile**>" command.	The files will be extracted. The delivery package should contain a delivery memo, documentation. algorithms, scripts, test plans, test data and expected test results.	If the tarfile is compressed, perform the Unix "**uncompress -c** <**compressed_tarfile**>" command prior to this step.
7	Send an e-mail notification to SCF for successful receipt of the science software delivery from the DAAC.	The e-mail notification will be transmitted to SCF successfully. The e-mail notification will be logged in the status log.	
8	Log off of the AIT workstations.	Successful logoff.	
9	Print the log file.	The log file will be printed.	The log file will be updated to reflect the unsuccessful receipt of the science software delivery package.
10	Send an e-mail notification for a software delivery from SCF to DAAC with a non-existing directory.	The e-mail notification for a software delivery package will be received at the DAAC.	

11	Receive an e-mail notification for a science software delivery from SCF to DAAC.	The e-mail software delivery notification will contain the invalid directory for an algorithm.	
12	Retrieve the science delivery package electronically via the Internet.	An error message concerning the invalid directory will be received from the Internet.	
13	Send an e-mail notification to the SCF specifying the unsuccessful receipt of the software delivery package at the DAAC.	The e-mail message will be transmitted to SCF successfully. The e-mail notification will be logged in the status log.	
14	Print the log file.	The log file will be printed.	The log file will be updated to reflect the unsuccessful receipt of the science software delivery package.
15	Send an e-mail notification for a software delivery from SCF to DAAC with a non-existing algorithm.	The e-mail science software delivery notification will be received at the DAAC.	
16	Receive an e-mail notification for a software delivery package from SCF to DAAC.	The e-mail science software delivery notification will contain a valid directory with no file for the algorithm.	

5.8.2 Eval. Inspection and Ver of Sc. S/W Delivery Test Procedures (BS001.002)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the compliant algorithm will be loaded into the AIT workstation. This algorithm will be in compliance with POSIX, ANSI, and ESDIS standards. In addition, these algorithms will be modified to violate those standards and will also be loaded into the AIT workstations.)	Successful login.	
2	Send a valid e-mail notification for a complete science software delivery from SCF to DAAC.	The e-mail notification will be received at the DAAC.	
3	Repeat steps 3 through 7 as described in BS001.001.		
4	Invoke the compiler to compile the compliant algorithm with appropriate flags to enforce the checking for POSIX, ANSI, and ESDIS standards.	The algorithm will compile successfully (POSIX, ANSI, and ESDIS compliant). A report file describing the result of compliance and standard checking will be generated.	
5	Print the report of algorithm compliance with POSIX, ANSI, and ESDIS standards specifications.	A report file describing the result of compliance will be printed.	
6	Send an e-mail notification for an incomplete software delivery package from SCF to DAAC	The e-mail notification for the software delivery package will be received at the DAAC.	
7	Repeat steps 4 through 8 as described in BS001.001.		
8	Uncompress all compressed files from the delivery package.	The files will be uncompressed. The delivery package will be missing some of the items as indicated in the memo.	
9	Send an e-mail notification to SCF for an incomplete receipt of the science software delivery at the DAAC.	The e-mail message will be transmitted to SCF successfully. The e-mail notification will be logged in the status log.	
10	Print the log file.	The log file will be printed.	The log file will be updated to reflect the unsuccessful receipt of the science software delivery package.
11	Send a valid e-mail notification for a software delivery package with a non-compliant algorithm from SCF to the DAAC.	The e-mail notification will be received at the DAAC.	
12	Repeat steps 4 through 10 as described in BS001.001.		

13	Invoke the compiler to compile the compliant algorithm with appropriate flags to enforce the checking for POSIX, ANSI, and ESDIS standards specification.	The algorithm will not compile successfully (an algorithm will not be POSIX, ANSI, and ESDIS compliant). A report file describing the result of compliance and standard checking will be generated.	
14	Send an e-mail to SCF for a non-compliant algorithm in the software delivery package at the DAAC.	The e-mail notification will be transmitted to SCF successfully. The e-mail notification will be logged in the status log.	
15	Print the log file.	The log file will be printed.	The log file will be updated to reflect the unsuccessful receipt of the science software delivery package.
16	Log off of the AIT workstation.	Successful logoff.	

5.8.3 Sc SW Delivery Integration Test Procedures (BS001.003)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the SCF environment. (Assuming the SCF version PGS toolkit and compliant, and non-compliant algorithms are loaded in the AIT workstation. An algorithm should be compliant with POSIX, ANSI, and ESDIS standards specifications.)	Successful login.	
2	Activate the compiler to compile the non-compliant algorithm with appropriate flags to enforce the checking for POSIX, ANSI, and ESDIS standards specification.	The algorithm will not compile successfully (algorithm will not be POSIX, ANSI, and ESDIS compliant). A report file describing the result of compliance and standard checking will be generated.	
3	Activate the compiler to compile the compliant algorithm with appropriate flags to enforce the checking for POSIX, ANSI, and ESDIS standards specification.	The algorithm will compile successfully (algorithm will be POSIX, ANSI, and ESDIS compliant). A report file describing the result of compliance and standard checking will be generated.	
4	Print the report of algorithm compliances with POSIX, ANSI, and ESDIS standards specifications.	A report file describing the result of compliance will be printed.	
5	Submit the processing request manually to run the algorithm according to the test plan provided in the software delivery package.		
6	Collect and store the test results.		
7	Compare the test results with the test results provided in the software delivery package.	Both test results will be identical.	
8	Send an e-mail notification from SCF for a valid software delivery package to the DAAC.	The e-mail message will be transmitted from SCF to DAAC successfully. The e-mail notification will be logged in the status log.	
9	Print the log file containing the performance statistic, resource utilization and status logs	The log file will be printed.	
10	Log onto the AIT workstations at the DAAC. (Assuming the DAAC version PGS toolkit is loaded in the AIT workstation.)	Successful logon.	
11	Repeat steps numbers 4 through 9 as described in BS001.001.		

12	Activate the compiler to compile the non-compliant algorithm with appropriate flags to enforce the checking for POSIX, ANS, and ESDIS standards specification.	The algorithm will not compile successfully (algorithm will not be POSIX, ANSI, and ESDIS compliant). A report file describing the result of compliance and standard checking will be generated.	
13	Activate the compiler to compile the compliant algorithm with appropriate flags to enforce the checking for POSIX, ANSI, and ESDIS standards specification.	The algorithm will compile successfully (algorithm will be POSIX, ANSI, and ESDIS compliant). A report file describing the result of compliance and standard checking will be generated.	
14	Repeat steps numbers 5 through 7 as described in this test procedure (BS001.003).	Test results generated at SCF and DAAC will be identical.	
15	Print the log file containing the performance stasis, resource utilization, and status logs.	The log file will be printed.	
16	Log off the AIT workstations at DAAC and SCF.	Successful logoff.	

5.8.4 Operational Testing of the Science Software Delivery Test Procedures (BS001.004)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the DAAC version PGS toolkit and compliant representative algorithm are loaded in the AIT workstation. The algorithm should be compliant with POSIX, ANSI, and ESDIS standards specifications.)	Successful login.	
2	Submit the processing request manually to run the algorithm according to the test plan provided in the software delivery package.	An on-line status 'Execution' will be displayed.	
3	Store the rest results.	The test results will be stored.	
4	Print the log file containing the performance statistics, resource utilization, and status logs.	The log file will be printed.	
5	Compare the test results of this test with the test results provided in the software delivery package from SCF using the comparison tool.	Both test results will be the same.	This test results will be identical except the differences in the hardware configuration.
6	Log off of the AIT workstations at DAAC and SCF.	Successful logoff.	
7	Repeat step numbers 1 through 5 on all approved DAAC platforms.		
8	Place the science software delivery package under CM using the Clearcase tool.	The software delivery package will be placed under CM.	
9	Repeat step numbers 1 through 3 in the operational environment.		The science software version running under operational environment will be labeled as 'Unverified' engineering version.
10	Compare the test result from the operational environment (engineering version) with the test result from the DAAC environment.	Both test results will be the same.	This test results will be identical except the differences in the hardware configuration.
11	Print the log file containing the performance statistic, resource utilization and status logs.	The log file will be printed.	
12	Generate and print the acceptance testing summary report.	The acceptance testing summary report will be printed.	
13	Log off of the AIT workstations at DAAC and SCF.	Successful logoff.	

5.8.5 Algorithm Configuration Management Test Procedures (B03.02.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment.	Successful login.	Assuming the Clearcase tool is loaded in the AIT workstation. A software delivery package should be on the local hard disk.
2	Enter: **cleartool setview <view name>**	The working view is started.	It is assumed that a VOB and a view have been created and designated by CM for you to use.
3	Change the current directory to the VOB where the algorithm is to be placed. Ex: **cd /ecs/systest/test**		
4	Enter: **cleartool checkout -nc .**	Checked out "." from version "/main/#".	The '-nc' option stands for 'no comment'.
5	Copy desired algorithm to current VOB directory. Ex: **cp ~/pathfinder.c .**	Algorithm is copied to current directory.	
6	Enter: **cleartool mkelem -ci pathfinder.c**	'Creation comments for "pathfinder.c ":'	The '-ci' option stands for 'check in'
7	Enter comments. Ex: **Initial algorithm creation(version1)** <return> To end comments, enter "**.**<return>" at the start of a new line.	Created element "pathfinder.c" (type "text_file"). Checked in " pathfinder.c " version "/main/1".	The algorithm is created and checked in.
8	Enter: **cleartool checkin -nc .**	Checked in "." version "/main/#".	
9	Enter: **cleartool lshistory pathfinder.c**	A history is displayed including: date, user, action.	
10	Enter: **ls -la pathfinder.c**	A directory listing of the algorithm is displayed.	Note that since the algorithm is now under CM, there are no write permissions.
11	Enter: **exit**	Exits the clearcase view.	
12	Logoff the AIT workstation.	Successful logoff.	

5.8.6 Algorithm in compliance with ECS standards Test Procedures (B03.03.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the POSIX checker tool is loaded on the AIT workstation. An algorithm on the local hard disk should be a POSIX compliant.)	Successful login.	This test verifies that the algorithm is in compliance with ECS standards.
2	Invoke the compiler to compile the POSIX compliant algorithm with appropriate flags to enforce the checking for POSIX standards.	The algorithm will compile successfully (algorithm should be POSIX compliant).	
3	Print the report containing the result of the POSIX compliance checking.	The report file will be printed.	The report file will reflect that the algorithm is in compliance with the POSIX standard specification.
4	Log off of the AIT workstation.	Successful logoff.	

5.8.7 Algorithm Not in Compliance with ECS standards Test Procedures (B03.03.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the POSIX checker tool is loaded in the AIT workstation. An algorithm on the AIT workstation should not be a POSIX compliant.)	Successful login.	Introduce error messages in the algorithm to violate the ECS standards.
2	Invoke the compiler to compile the POSIX compliant algorithm with appropriate flags to enforce the checking for POSIX standards.	The algorithm will not compile successfully (algorithm will not be a POSIX compliant).	
3	Print the report containing the result of the POSIX compliance checking.	The report file will be printed.	A report file reflect that the algorithm is not in compliance with the POSIX standard specification.
4	Log off of the AIT workstation.	Successful logoff.	

5.8.8 Algorithm Readiness Inventory Test Procedures (B03.03.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Obtain a complete and valid software delivery package.		This test validates that algorithm characteristics are present prior to scheduling . This is a manual process.
2	Manually record all required characteristics (e.g., language used, algorithm size, required resources, algorithm documentation) of an algorithm are present in the inventory log form.	All required characteristics for running an algorithm will be recorded in the inventory log form.	
3	Record any missing characteristic or discrepancy in the delivery package evaluation report.	The evaluation form may or may not contain all missing characteristics or information for running the algorithm.	If the software package misses any required characteristic in the inventory log form than the algorithm is not read to run.

5.8.9 DAAC Algorithm Scheduling and Processing Algorithm Test Procedures (B03.06.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the compliant representative algorithm from the delivery package, production plan, and DAAC version PGS toolkit are installed in the AIT workstation in the DAAC environment).	Successful login.	The production plan, containing science algorithm inputs, control parameters, resource validation, resource validation, resources utilization, predicted processing times and simulated TRMM data products, will be prepared and installed on the AIT workstation.
2	Setup a panel to submit the processing requests.	A panel for submitting an processing request will appear on the screen.	
3	Enter a processing request manually and activate an appropriate production plan.	The PDPS will schedule the algorithm contained in the scripts to execute at the DAAC. The processing request is entered as a job on the processing queues. The PDPS will report on the schedule time, the success of execution and the result of execution.	
4	Print the history log file.	The history log file will be printed.	The history log file will reflect the successful scheduling and execution.
5	Log off of the AIT workstation.	Successful logoff.	

5.8.10 Verification of Event Log Test Procedures (B03.07.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the event log files from tests B03.07.01 through B03.07.3 are still on the AIT workstation)	Successful login.	This test will print the event log files from tests B03.07.01 through B03.07.3 that ran on the AIT workstation)
2	Access the directory of an event file for test B03.07.01.	The directory of an event log file for test B03.07.01 will be located.	
3	Print the processing log file for test B03.06.01 from that directory.	The event log file for test B03.06.01 will be printed.	The event log file will contain all activities which occurred during this test.
4	Repeat steps 2 and 3 for tests B03.07.01 through B03.07.3.		
5	Log off of the AIT workstation.	Successful logoff.	

5.8.11 Successful Comparison Test Procedures (B03.08.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the test result file from tests TS001.001 is still on the AIT workstation).	Successful login.	The file comparison tool will compare the expected results provided by the software delivery package with the actual result during actual execution of the algorithm.
2	Activate the file comparison tool.		
3	Activate the report generation tool.		
4	Enter the directory and file name of the test result file from tests TS001.001 into the file comparison panel.	The directory name and file name will be accepted by the file comparison panel.	
5	Run the file comparison tool to compare the expected results provided by the software delivery package with the actual result from the execution of the algorithm.	Both results will be identical except the differences in the hardware environment.	
6	Print the report file.	The report will be printed.	The report file will not show the differences between the results except the differences in the hardware at SCF and DAAC.
7	Log off of the AIT workstation.	Successful logoff.	

5.8.12 Unsuccessful Comparison Test Procedures (B03.08.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the test result file from tests TS001.001 is still on the AIT workstation).	Successful login.	The file comparison tool will compare the expected results provided by the software delivery package with the actual result during actual execution of the algorithm. The test result from the actual execution of the algorithm will be copied and modified. The modified copy will be compared with the test result provided in the delivery package.
2	Activate the file comparison tool.		
3	Activate the report generation tool.		
4	Enter the directory and file name of the test result file from tests TS001.001 (modified to see differences) into the file comparison panel.	The directory name and file name will be accepted by the file comparison panel.	
5	Run the file comparison tool to compare the expected results provided by the software delivery package with the actual result the execution of the algorithm.	Both results will not be identical.	
6	Print the report file.	The report will be printed.	The report file will show the differences between the modified test results from TS001.001 and the test result from the delivery package.
7	Log off of the AIT workstation.	Successful logoff.	

5.8.13 Successful Transfer Test Procedures (B03.09.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the test result file from tests TS001.001 is still on the AIT workstation.)	Successful login.	E-Mail tool will be used to transfer test results from DAAC to SCF.
2	Log onto the AIT workstation at EDF in the SCF environment. (The tester at this location will receive the E-mail message sent from DAAC.)	Successful login.	An appropriate E-mail mail address will be needed to send the message to SCF.
3	Prepare an E-mail message and attach the files of test results to be sent from DAAC to SCF. Check the box for a receipt.	The content of the files will be algorithm identification, test times, processors identification and test results.	
4	Send the E-mail message with test results to an appropriate E-mail address at SCF.	The 'Sending...' message will be displayed on the screen.	The receiver at SCF will compare each file's content with the hard copy of the file sent from the DAAC.
5	Receive the E-mail message at SCF.	The receipt will be sent to DAAC upon receiving the e-mail message by an SCF personnel at specified E-mail address.	
6	Print the report file from the AIT workstation at the DAAC.	The report will be printed.	
7	Log off of the AIT workstation in the DAAC and SCF environments.	Successful logoff at both locations.	

5.8.14 Unsuccessful Transfer Test Procedures (B03.09.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the test result file from tests TS001.001 is still on the AIT workstation.)	Successful login.	E-Mail tool will be used to transfer test results from DAAC to SCF. An appropriate E-mail mail address will be needed to send the message to SCF.
2	Log onto the AIT workstation at EDF in the SCF environment. (The tester at this location will receive the E-mail message sent from DAAC.)	Successful login.	
3	Prepare an E-mail message and attach the files of test results to be sent from DAAC to SCF. Check the box for a receipt.		
4	Send the E-mail message with test results to an appropriate E-mail address at SCF.	The 'Sending...' message will be displayed on the screen.	
5	Induce an error message immediately after sending the message.	The SCF personnel will not receive the E-mail message. As a result, the receipt will not be received by the DAAC.	
6	Print the report file from the AIT workstation at the DAAC.	The report will be printed.	The report file will indicate on the failed attempt to transfer test results to the SCF.
7	Log off of the AIT workstation in the DAAC and SCF environments.	Successful logoff at both locations.	

5.8.15 Partial Transfer Test Procedures (B03.09.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the test result file from tests TS001.001 is still on the AIT workstation.)	Successful login.	E-Mail tool will be used to transfer a partial test results from DAAC to SCF.
2	Log onto the AIT workstation at EDF in the SCF environment. (The tester at this location will receive the E-mail message sent from DAAC.)	Successful login.	An appropriate E-mail mail address will be needed to send the message to SCF.
3	Prepare an E-mail message and all files of the test result to be sent from DAAC to SCF. Check the box for a receipt.		
4	Send the E-mail message with a partial test result to an appropriate E-mail address at SCF.	The 'Sending...' message will be displayed on the screen.	
5	Receive the E-mail message at SCF.	The receipt will be sent to DAAC upon receiving the e-mail message by an SCF personnel at specified E-mail address. The SCF personnel will receive the E-mail message with the partial test results.	
6	Print the report file from the AIT workstation at the DAAC.	The report will be printed.	The report file will indicate the failed attempt due to incomplete packaging of the test result.
7	Log off of the AIT workstation in the DAAC and SCF environments.	Successful logoff at both locations.	

5.8.16 Calibration Coefficients & Alg. Update Test Procedures (B03.12.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation in the SCF environment at EDF. (Assuming an algorithm from the delivery package, production plan for geolocation/geocoordination conversion or time/date conversion and the SCF version PGS toolkit are installed on the AIT workstation in the DAAC environment at EDF)	Successful login.	This test will evaluate the ability of the DAAC toolkit environment to modified existing algorithms when an algorithm/coefficient update is deemed necessary by the SCF. The existing algorithm will be modified in the SCF and DAAC environments at EDF according to the updated procedures provided in the software delivery.
2	Modify the algorithm as described in the updated procedures and data received from the SCF. Use a script editor to make changes to the algorithm.	The algorithm will be modified as described in the updated procedure.	The production plan, containing science algorithm inputs, control parameters, resource validation, resources utilization, predicted processing times and simulated TRMM data products, will be prepared to perform geolocation/geocoordination Conversion or time/date Conversion.
3	Setup a panel to submit a processing request to convert data from geolocation to geocoordination on the SCF AIT workstation.	A panel for submitting an processing request will be setup.	This production plan will be installed on AIT workstation in the DAAC and the SCF environments.
4	Enter a processing request manually to perform the conversion.	The on-line status for requests will display 'Accepted'.	
5	Save data generated as a result of the processing request.	Data will be saved in the file.	
6	Print the history log containing the activities of scheduling and executions	The history log file will be printed.	The history log file will reflect an acceptance of the processing request.
7	Log off of the AIT workstation in the SCF environment at EDF.	Successful logoff.	
8	Log onto the AIT workstation in at the DAAC environment EDF. (Assuming the modified algorithm from the delivery package, production plan for geolocation/geocoordination conversion or time/date conversion and the DAAC version PGS toolkit are installed on the AIT workstation in the DAAC environment)	Successful login.	

9	Modify the algorithm as described in the updated procedures and data received from the SCF. Use a script editor to make changes to the algorithms.	The algorithm will be modified as described in the updated procedure received from SCF.	
10	Setup a panel to submit the processing request to convert the data from geolocation to geocoordination on SCF AIT workstation.	A panel for submitting an processing request will be setup.	
11	Enter a processing request manually to perform the conversion.	The on-line status for requests will display 'Accepted'.	
12	Save data generated as a result of the processing request.	Data will be saved in the file.	
13	Invoke the comparison tool and setup the panel to compare test results from the SCF and DAAC.	The results will be saved in the file.	
14	Run the comparison tool to compare test results from the SCF and DAAC.	Both results will be exactly the same, except the differences in the hardware environments.	
15	Print the history log file.	The history log file will be printed.	The history log file will reflect an acceptance of the processing request.
16	Log off of the AIT workstation in the DAAC environment.	Successful logoff.	

5.8.17 Software Problem Reports Test Procedures (B03.13.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the algorithm from the delivery package, production plan for level 1A TRMM data product and DAAC version PGS toolkit are installed on the AIT workstation in the DAAC environment.)	Successful login.	
2	Activate the logging tool to record the activities of scheduling and executions.	The history log file will start recording events happening during this test.	
3	Prepare a software problem report at the DAAC and fill out all appropriate fields. The report will contain the reason for updating the algorithms running at that DAAC.	Appropriate fields of the problem Trouble Report will be filled out.	
4	Assign a unique number to the software problem report in the system.	A number will be assigned to the software problem report.	
5	Transmit the software problem report to the ECS Science Community, via e-mail.	The ECS Science Community will receive software problem report from the DAAC.	
6	Call the tester at the ECS Science Community to receive the report.	The tester at the ECS Science Community will be able to receive the software problem report.	
7	Print the Software Problem reports at both sites.	Both reports will be printed.	
8	Compare the contents of the reports.	Both reports should be identical.	
9	Print the history log file.	The log file will be printed.	
10	Log off of the AIT workstation in the DAAC environment.	Successful logoff.	

5.8.18 Integration Support Request Test Procedures (B03.13.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the algorithm from the delivery package, production plan for level 1A TRMM data product and DAAC version PGS toolkit are installed on the AIT workstation in the DAAC environment.)	Successful login.	
2	Activate the logging tool to record the activities of scheduling and executions.	The history log file will start recording events happening during this test.	
3	Ensure that the tester at the ECS Science Community has prepared an integration support request.	The report will contain the reason for updating the algorithms running at that DAAC.	The format for this request is the same for Team Leaders, Team Members, Principle Investigators, and Co-Investigators.
4	Have the tester at the ECS Science Community send the integration support request to the EDF via E-Mail.	The integration support request should be received at the EDF.	
5	Print the history log file.	The log file will be printed.	
6	Log off of the AIT workstation in the DAAC environment.	Successful logoff.	

5.8.19 I/O to Intermediate Storage Test Procedures (B03.14.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation in the SCF environment at EDF (Assuming the SCF version of PGS toolkit is loaded in the AIT workstation.)	Successful login.	
2	Activate the logging tool to record the activities of executions.	The history log file will start recording events happening during this test.	
3	Use the PGS_IO_Gen_Temp_Open tool with the PGSd_IO_Gen_NoEndurance option to create and open a temporary file.	Ensure that the PGS_S_SUCCESS message is returned.	
4	Use the PGS_IO_Gen_Close tool to close the temporary file.	Ensure that the temporary file has been closed and deleted following the PGE.	
5	Use the PGS_IO_Gen_Temp_Open tool with the PGSd_IO_Gen_Endurance option to create and open an intermediate file.	Ensure that the PGS_S_SUCCESS message is returned.	
6	Use the PGS_IO_Gen_Close tool to close the intermediate file.	Ensure that the intermediate file has been closed and deleted after the user-defined time following the PGE.	
7	Print the history log file.	The log file will be printed.	
8	Log off of the AIT workstation in the SCF environment at EDF.	Successful logoff.	

5.8.20 Multiple Passes over Input Products Test Procedures (B03.13.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation in the SCF environment at EDF (Assuming the SCF version of PGS toolkit is loaded in the AIT workstation.)	Successful login.	
2	Activate the logging tool to record the activities of executions.	The history log file will start recording events happening during this test.	
3	Use the PGS_AA_2DRead tool to access a 2 dimensional data set (e.g., sea-ice).	Ensure that the identified data has been loaded into memory.	
4	Run a science algorithm using the data extracted above.	The algorithm should execute properly, and the executable and calibration coefficients should be stored.	
5	Repeat step 4 several times using a different algorithm on the same data file.	The data file should still be intact, and the algorithm shoud execute properly.	
6	Print the history log file.	The log file will be printed.	
7	Log off of the AIT workstation in the SCF environment at EDF.	Successful logoff.	

5.8.21 Build and Install CM platform Test Procedures (T03-01.01.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the simulated SCF environment.	Successful login.	
2	Transfer the software delivery package via FTP from the simulated SCF to DAAC. This step will not be applicable if the software delivery package is going to be received via tape.	The e-mail notification for a software delivery package will be transmitted the DAAC.	
3	Log onto the AIT workstation in the DAAC environment at EDF.	Successful login.	
4	Receive the software delivery package via FTP from the simulated SCF to the DAAC. This step will not be applicable if the software delivery package is going to be received via tape. In that case, load the software delivery package from that tape using tar and recursive copy programs.	The software delivery package will be received successfully.	
5	Bringup the main menu of the Clearcase tool to store the software delivery package in the CM software libraries at the DAAC.	The main menu of the Clearcase will be displayed on the screen.	
6	Enter all necessary information in the main menu to store the software delivery package in the CM software libraries at the DAAC.	All required fields will be entered in the main menu of the Clearcase tool.	
7	Submit the job for storing the files from software delivery into CM.	All files of the software delivery package will be stored in the CM libraries.	
8	Compare original files of the delivery package with the appropriate files stored in the CM.	All checksums of source code, libraries executables in the software delivery package should match.	
9	Print the log file.	The log file will be printed.	The log file will be updated to reflect the activities of storing the delivery package into CM libraries.
10	Log off of the AIT workstations.	Successful logoff.	

5.8.22 Building Executable Codes for an ECS defined platform type Test Procedures (T03-01.02.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the software delivery package is installed on the AIT workstation.)	Successful login.	
2	Execute the makefile provided in the delivery package.	An executable file will be created without any error message.	
3	Compare the original executable file of the delivery package with the newly created one.	The checksum of executable file from the software delivery package should match with the newly created one. However, these files will not be matched entirely due to the differences in the hardware at both sites.	
4	Install the executable codes on a required platform	An executable file will be installed on a required platform.	
5	Run the executable code on that platform.	It will perform the functions/operations provided as a part of the Ir-1 system release.	
6	Print the log file.	The log file will be printed.	The log file will contain log entries generated as a result of building, installing, executing and verifying executable codes.
7	Log off of the AIT workstation.	Successful logoff.	

5.8.23 Build/Install Previous Version of an executable Codes Test Procedures (T03-01.04.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation at EDF in the DAAC environment. (Assuming the previous version of the source code and libraries required to build an executable code.)	Successful login.	
2	Locate an appropriate executable script in CM to build the executable code of the previous version.		
3	Execute an appropriate makefile to create a previous version of the source codes.	Executable code will be created without any error message on the screen.	
4	Install the executable codes on a required platform.	An executable file will be installed on a required platform.	
5	Run the executable codes on a required platform to verify that it will execute.		
6	Print the log file.	The log file will be printed.	The log file will be updated to reflect the activities of installation and running the executable program.
7	Log off of the AIT workstations.	Successful logoff.	

5.8.24 Geolocation/Geocoordinate Conversion Test Procedures (T03-01.09.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation in the SCF environment at EDF. (Assuming the science software delivery package containing an algorithm for geolocation/geocoordinate conversion, SCF and DAAC versions of PGS toolkits are loaded in the AIT workstation.)	Successful login.	This test verifies that an algorithm developed and deemed valid at the SCF, will run correctly giving the same algorithm output as produced in the SCF when run at the DAAC.
2	Submit a processing request for geolocation/geocoordinate conversion using the SCF version of the PGS toolkit.	Algorithm output will be generated.	
3	Print the log file.	The log file will be printed.	The log file will contain log entries for scheduling and execution of the algorithm.
4	Log off of the AIT workstation in the SCF environment at EDF.	Successful logoff.	
5	Log onto the AIT workstation in the DAAC environment at EDF. (Assuming the science software delivery package containing an algorithm for geolocation/geocoordinate conversion, SCF and DAAC versions of PGS toolkits are loaded in the AIT workstation.)	Successful login.	
6	Submit a processing request for geolocation/geocoordinate conversion using the DAAC version of the PGS toolkit.	Algorithm output will be generated.	
7	Compare outputs from both runs using a data comparison tool.	Both outputs will be the same.	The outputs from runs at SCF and DAAC will be analyzed for correct scientific product content.
8	Print the log file.	The log file will be printed.	The log file will contain log entries for scheduling and execution of the algorithm.
9	Log off of the AIT workstation in the DAAC environment at EDF.	Successful logoff.	

5.8.25 Time/Date Conversion Test Procedures (T03-01.09.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation in the SCF environment at EDF. (Assuming the science software delivery package containing an algorithm for date/time conversion, SCF versions of PGS toolkits are loaded in the AIT workstation.)	Successful login.	
2	Submit a processing request for date/time conversion using the SCF version of the PGS toolkit.	Algorithm output will be generated.	
3	Print the log file.	The log file will be printed.	The log file will contain log entries for scheduling and execution of the algorithm.
4	Log off of the AIT workstation in the SCF environment at EDF.	Successful logoff.	
5	Log onto the AIT workstation in the DAAC environment at EDF. (Assuming the science software delivery package containing an algorithm for date/time conversion, DAAC version of PGS toolkits are loaded in the AIT workstation.)	Successful login.	
6	Submit a processing request for date/time conversion using the DAAC version of the PGS toolkit.	Algorithm output will be generated.	
7	Compare outputs from both runs using a data comparison tool.	Both outputs will be the same.	The outputs from runs at SCF and DAAC will be analyzed for correct scientific product content.
8	Print the log file.	The log file will be printed.	The log file will contain log entries for scheduling and execution of the algorithm.
9	Log off of the AIT workstation in the DAAC environment at EDF.	Successful logoff.	

5.8.26 Calibration Coefficients and Algorithm Update Test Procedures (T03-01.09.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Log onto the AIT workstation in the SCF environment at EDF. (Assuming the science software delivery package containing an updated algorithm with new coefficients, SCF version of PGS toolkits are loaded in the AIT workstation.)	Successful login.	This test verifies that an algorithm proved to be a valid algorithm from a previous test is modified and deemed valid at the SCF, will run correctly giving the same algorithm output as produced in the SCF when run at the DAAC.
2	Submit a processing request for using the SCF version of the PGS toolkit.	Algorithm output will be generated.	
3	Print the log file.	The log file will be printed.	The log file will contain log entries for scheduling and execution of the algorithm.
4	Log off of the AIT workstation in the SCF environment at EDF.	Successful logoff.	
5	Log onto the AIT workstation in the DAAC environment at EDF. (Assuming the science software delivery package containing an updated algorithm with new coefficient, DAAC version of PGS toolkits are loaded in the AIT workstation.)	Successful login.	
6	Submit a processing request.	Algorithm output will be generated.	
7	Compare outputs from both runs using a data comparison tool.	Both outputs will be the same.	The outputs from runs at SCF and DAAC will be analyzed for correct scientific product content.
8	Print the log file.	The log file will be printed.	The log file will contain log entries for scheduling and execution of the algorithm.
9	Log off of the AIT workstation in the DAAC environment at EDF.	Successful logoff.	

5.8.27 Remote AI&T Access for SCFs Test Procedures (BS001.005)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Remotely login from SCF to DAAC AI&T workstation		utilize all 3-5 accounts set up so that simultaneous use of tools can be excercised
2	reuse procedures that utilize the following tools: Code Checker - Fortran 77 Code Checker - SPARCworks (Sun) Code Checker - CASEVision (SGI) Standards Checker Compiler - C (Sun/SGI) Compiler - Fortran (Sun/SGI) File Comparison Tools Sybase Queries to Event Log e-mail to SCF and DAAC		note the actual test case id and step numbers for each tool: TCxxx.yyy Steps ww-zz TCxxx.yyy Steps ww-zz TCxxx.yyy Steps ww-zz TCxxx.yyy Steps ww-zz TCxxx.yyy Steps ww-zz TCxxx.yyy Steps ww-zz TCxxx.yyy Steps ww-zz TCxxx.yyy Steps ww-zz TCxxx.yyy Steps ww-zz
3	Terminate all remote sessions		
4	complete test log / end test		

5.9 TRMM SDPF Ingest Thread (T7)

5.9.1 SDPF Authentication Request With Valid ID Test Procedures (TS004.001)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	Remote logon to the simulated Data Provider (SDPF) workstation three times using three xterm's.		
4	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
5	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
6	On the third xterm window configure the correct authentication request file (valid) for the LaRC DAAC.		
7	On the first xterm send a valid Authentication Request to the LaRC DAAC.	Successful transmission of Authentication Request.	
8	After receiving the Authentication Response get a printout of it using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted.	Use the parser tool 'prtm' to get the Authentication Response in ASCII form.
9	On the Gateway Server workstation get a printout of the Gateway Event Log.	The Gateway Event Log should contain an entry for the Authentication Response.	
10	On the second xterm shutdown the simulator.		
11	On the second xterm start up the simulator user interface.		
12	On the first xterm start up the simulator.		
13	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
14	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	

15	After receiving the Authentication Response get a printout of it using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted.	Use the parser tool 'prtm' to get the Authentication Response in ASCII form.
16	On the Gateway Server workstation get a printout of the Gateway Event Log.	The Gateway Event Log should contain an entry for the Authentication Response.	
17	On the second xterm shutdown the simulator.		
18	On the DAAC Ingest Server and Gateway Server workstations, 'kill' all Ingest and Gateway Server forked processes.		
19	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.9.2 SDPF Authentication Req. With Invalid ID Test Procedures (TS004.003)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	Remote logon to the simulated Data Provider (SDPF) workstation three times using three xterm's.		
4	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
5	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
6	On the third xterm window configure the correct authentication request file (invalid) for the LaRC DAAC.		
7	On the first xterm send a valid Authentication Request to the LaRC DAAC.	Successful transmission of Authentication Request.	
8	After receiving the Authentication Response get a printout of it using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was not accepted.	Use the parser tool 'prtm' to get the Authentication Response in ASCII form.
9	On the Gateway Server workstation get a printout of the Gateway Event Log.	The Gateway Event Log should contain an entry for the Authentication Response.	
10	On the second xterm shutdown the simulator.		
11	On the second xterm start up the simulator user interface.		
12	On the first xterm start up the simulator.		
13	On the third xterm window configure the correct authentication request file (invalid) for the MSFC DAAC.		
14	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	
15	After receiving the Authentication Response get a printout of it using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was not accepted.	Use the parser tool 'prtm' to get the Authentication Response in ASCII form.

16	On the Gateway Server workstation get a printout of the Gateway Event Log.	The Gateway Event Log should contain an entry for the Authentication Response.	
17	On the second xterm start up the simulator user interface. Type: *ui*		
18	On the first xterm start up the simulator. Type: *sim*		
19	On the third xterm window configure the correct authentication request file for the MSFC DAAC. Type: *cp MSFC/invalid_AR dsd_dsc_authent_netrc.txt*		

5.9.3 SDPF Valid Data Availability Notice Verification Procedures (TS004.005)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted.		
4	Remote logon to the simulated Data Provider (SDPF) workstation three times using three xterm's.		
5	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the LaRC DAAC.		
8	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
9	On the second xterm, after receiving the Authentication Response send valid LDAN-1 to the LaRC DAAC.	Successful transmission of LDAN-1.	LDAN-1 contains CERES QL (data & SFDU).
10	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that LDAN-1 was accepted.	Use the parser tool 'prtm' to get the DAA in ASCII form.
11	On the second xterm shutdown the simulator.		
12	On the second xterm start up the simulator user interface.		
13	On the first xterm start up the simulator.		
14	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
15	On the second xterm send valid LDAN-2 to the LaRC DAAC.	Successful transmission of LDAN-2.	LDAN-2 contains CERES L0 (data & SFDU) and TRMM Predictive & Definitive 0rbit data.
16	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that LDAN-2 was accepted.	Use the parser tool 'prtm' to get the DAA in ASCII form.

17	Repeat steps 11 through 13.		
18	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
19	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	
20	On the second xterm, after receiving the Authentication Response send valid MDAN-1 to the MSFC DAAC.	Successful transmission of MDAN-1.	MDAN-1 contains LIS QL (data & SFDU)
21	After receiving the DAA get a printout of it using the third xterm and then delete all messages..	The DAA should indicate that MDAN-1 was accepted.	Use the parser tool 'prtm' to get the DAA in ASCII form.
22	Repeat steps 11 through 13.		
23	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
24	On the second xterm send valid MDAN-2 to the LaRC DAAC.	Successful transmission of MDAN-2.	MDAN-2 contains LIS L0 (data & SFDU) and TRMM Predictive & Definitive 0rbit data.
25	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that the DAN was accepted.	Use the parser tool 'prtm' to get the DAA in ASCII form.
26	On the second xterm shutdown the simulator.		
27	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /Ir1_IT/INGEST/temp_store/**		
28	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.9.4 SDPF Invalid Data Availability Notice Verification Test Procedures (TS004.007)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
	THIS TEST WILL NOT BE EXECUTED BECAUSE DURING ICD NEGOTIATIONS IT WAS AGREED THAT THE SDPF WOULD NOT BE REQUIRED TO HAVE AN "EXPIRATION_TIME" KEYWORD IN THE PVL PORTION OF ANY DAN TRANSMITTED TO ECS.		
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted.		
4	Remote logon to the simulated Data Provider (SDPF) workstation three times using three xterm's.		
5	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the LaRC DAAC.		
8	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
9	On the second xterm, after receiving the Authentication Response send valid LDAN-3 to the LaRC DAAC.	Successful transmission of LDAN-3.	LDAN-3 contains an invalid "EXPIRATION_TIME".
10	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that the EXPIRATION_DATE in LDAN-3 was invalid.	Use the parser tool 'prtm' to get the DAA in ASCII form.
11	On the second xterm shutdown the simulator.		
12	On the second xterm start up the simulator user interface.		
13	On the first xterm start up the simulator.		

14	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
15	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
16	On the second xterm, after receiving the Authentication Response send valid MDAN-3 to the MSFC DAAC.	Successful transmission of MDAN-3.	MDAN-3 contains an invalid "EXPIRATION_TIME".
17	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that the EXPIRATION_DATE in MDAN-3 was invalid.	Use the parser tool 'prtm' to get the DAA in ASCII form.
18	On the second xterm shutdown the simulator.		
19	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
20	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.9.5 SDPF FTP- Get Single File Data Ingest Test Procedures (TS005.001)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to Successful.		
4	Remote logon to the simulated Data Provider (SDPF) workstation three times using three xterm's.		
5	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the LaRC DAAC.		
8	On the first xterm send a valid Authentication Request to the LaRC DAAC.	Successful transmission of Authentication Request.	
9	On the second xterm, after receiving the Authentication Response send valid LDAN-1 to the LaRC DAAC.	Successful transmission of LDAN-1.	LDAN-1 contains CERES QL (data & SFDU).
10	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that LDAN-1 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
11	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
12	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in LDAN-1.	

13	On the second xterm shutdown the simulator.		
14	On the second xterm start up the simulator user interface.		
15	On the first xterm start up the simulator.		
16	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
17	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	
18	On the second xterm, after receiving the Authentication Response send valid MDAN-1 to the MSFC DAAC.	Successful transmission of MDAN-1.	MDAN-1 contains LIS QL (data & SFDU)
19	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-1 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
20	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
21	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-1.	
22	On the second xterm shutdown the simulator.		
23	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
24	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.9.6 SDPF FTP-Get and Multiple File Ingest Test Procedures (TS005.003)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to Successful.		
4	Remote logon to the simulated Data Provider (SDPF) workstation three times using three xterm's.		
5	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the LaRC DAAC.		
8	On the first xterm send a valid Authentication Request to the LaRC DAAC.	Successful transmission of Authentication Request.	
9	On the second xterm, after receiving the Authentication Response send valid LDAN-2 to the LaRC DAAC.	Successful transmission of LDAN-2.	LDAN-2 contains CERES L0 (data & SFDU) and TRMM Predictive & Definitive 0rbit data.
10	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that LDAN-2 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
11	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
12	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in LDAN-2.	

13	On the second xterm shutdown the simulator.		
14	On the second xterm start up the simulator user interface.		
15	On the first xterm start up the simulator.		
16	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
17	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	
18	On the second xterm, after receiving the Authentication Response send valid MDAN-2 to the MSFC DAAC.	Successful transmission of MDAN-2.	MDAN-2 contains LIS L0 (data & SFDU) and TRMM Predictive & Definitive 0rbit data.
19	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-2 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
20	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
21	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-2.	
22			
23	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
24	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.10 TRMM TSDIS Ingest Thread (T8)

5.10.1 TSDIS Authentication Req with Valid ID Test Procedures (TS004.002)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
4	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
5	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
6	On the third xterm window configure the correct authentication request file (valid) for the GSFC DAAC.		
7	On the first xterm send a valid Authentication Request to the GSFC DAAC.	Successful transmission of Authentication Request.	
8	After receiving the Authentication Response get a printout of it using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted.	Use the parser tool ‘prtm’ to get the Authentication Response in ASCII form.
9	On the Gateway Server workstation get a printout of the Gateway Event Log.	The Gateway Event Log should contain an entry for the Authentication Response.	
10	On the second xterm shutdown the simulator.		
11	On the second xterm start up the simulator user interface.		
12	On the first xterm start up the simulator.		
13	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
14	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	

15	After receiving the Authentication Response get a printout of it using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted.	Use the parser tool ‘prtm’ to get the Authentication Response in ASCII form.
16	On the Gateway Server workstation get a printout of the Gateway Event Log.	The Gateway Event Log should contain an entry for the Authentication Response.	
17	On the second xterm shutdown the simulator.		
18	On the DAAC Ingest Server and Gateway Server workstations, ‘kill’ all Ingest and Gateway Server forked processes.		
19	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.10.2 TISDIS Authentication Req with Invalid ID Test Procedures (TS004.004)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
4	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
5	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
6	On the third xterm window configure the correct authentication request file (invalid) for the GSFC DAAC.		
7	On the first xterm send a valid Authentication Request to the GSFC DAAC.	Successful transmission of Authentication Request.	
8	After receiving the Authentication Response get a printout of it using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was not accepted.	Use the parser tool ‘prtm’ to get the Authentication Response in ASCII form.
9	On the Gateway Server workstation get a printout of the Gateway Event Log.	The Gateway Event Log should contain an entry for the Authentication Response.	
10	On the second xterm shutdown the simulator.		
11	On the second xterm start up the simulator user interface.		
12	On the first xterm start up the simulator.		
13	On the third xterm window configure the correct authentication request file (invalid) for the MSFC DAAC.		
14	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	

15	After receiving the Authentication Response get a printout of it using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was not accepted.	Use the parser tool ‘prtm’ to get the Authentication Response in ASCII form.
16	On the Gateway Server workstation get a printout of the Gateway Event Log.	The Gateway Event Log should contain an entry for the Authentication Response.	
17	On the second xterm shutdown the simulator.		
18	On the DAAC Ingest Server and Gateway Server workstations, ‘kill’ all Ingest and Gateway Server forked processes.		
19	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.10.3 TSDIS Valid Data Availability Notice Test Procedures (TS004.006)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted.		
4	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
5	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the GSFC DAAC.		
8	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
9	On the second xterm, after receiving the Authentication Response send valid GDAN-1 to the GSFC DAAC.	Successful transmission of GDAN-1.	GDAN-1 contains VIRS L1A (data & SFDU)
10	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that GDAN-1 was accepted.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
11	On the second xterm shutdown the simulator.		
12	On the second xterm start up the simulator user interface.		
13	On the first xterm start up the simulator.		
14	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
15	On the second xterm send valid GDAN-2 to the GSFC DAAC.	Successful transmission of GDAN-2.	GDAN-2 contains VIRS L1A - 1B and Browse data

16	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that GDAN-2 was accepted.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
17	Repeat steps 11 through 13.		
18	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
19	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
20	On the second xterm, after receiving the Authentication Response send valid MDAN-1 to the MSFC DAAC.	Successful transmission of MDAN-1.	MDAN-1 contains PR L1A (data & SFDU)
21	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that MDAN-1 was accepted.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
22	Repeat steps 11 through 13.		
23	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
24	On the second xterm send valid MDAN-2 to the MSFC DAAC.	Successful transmission of MDAN-2.	MDAN-2 contains TMI L1A (data & SFDU)
25	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that MDAN-2 was accepted.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
26	Repeat steps 11 through 13.		
27	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
28	On the second xterm send valid MDAN-3 to the MSFC DAAC.	Successful transmission of MDAN-3.	MDAN-3 contains GV L1B data
29	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that MDAN-3 was accepted.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
30	Repeat steps 11 through 13.		
31	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
32	On the second xterm send valid MDAN-4 to the MSFC DAAC.	Successful transmission of MDAN-4.	MDAN-4 contains VIRS “combined” data
33	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that MDAN-4 was accepted.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
34	Repeat steps 11 through 13.		
35	On the first xterm send a valid Authentication Request to the MSFC DAAC.		

36	On the second xterm send valid MDAN-5 to the MSFC DAAC.	Successful transmission of MDAN-5.	MDAN-5 contains (PR, TMI, GV) L1A - 3B, VIRS “combined” and Browse data
37	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that MDAN-5 was accepted.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
38	On the second xterm shutdown the simulator.		
39	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
40	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.10.4 TSDIS Invalid Data Availability Notice Verification Test Procedures (TS004.008)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted.		
4	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
5	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the GSFC DAAC.		
8	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
9	On the second xterm, after receiving the Authentication Response send valid GDAN-3 to the GSFC DAAC.	Successful transmission of GDAN-3.	GDAN-3 contains an invalid “EXPIRATION_TIME”.
10	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that the EXPIRATION_DATE in GDAN-3 was invalid.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
11	On the second xterm shutdown the simulator.		
12	On the second xterm start up the simulator user interface.		
13	On the first xterm start up the simulator.		
14	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
15	On the first xterm send a valid Authentication Request to the MSFC DAAC.		

16	On the second xterm, after receiving the Authentication Response send valid MDAN-6 to the MSFC DAAC.	Successful transmission of MDAN-6.	MDAN-6 contains an invalid “EXPIRATION_TIME”.
17	After receiving the DAA get a printout of it using the third xterm and then delete all messages.	The DAA should indicate that the EXPIRATION_DATE in MDAN-6 was invalid.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
18	On the second xterm shutdown the simulator.		
19	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
20	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.10.5 TSDIS FTP-Get Single File Data Ingest Test Procedures (TS005.002)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to Successful.		
4	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
5	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the GSFC DAAC.		
8	On the first xterm send a valid Authentication Request to the GSFC DAAC.	Successful transmission of Authentication Request.	
9	On the second xterm, after receiving the Authentication Response send valid GDAN-1 to the GSFC DAAC.	Successful transmission of GDAN-1.	GDAN-1 contains VIRS L1A (data & SFDU)
10	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that GDAN-1 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
11	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	

12	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in GDAN-1.	
13	On the second xterm shutdown the simulator.		
14	On the second xterm start up the simulator user interface.		
15	On the first xterm start up the simulator.		
16	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
17	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	
18	On the second xterm, after receiving the Authentication Response send valid MDAN-1 to the MSFC DAAC.	Successful transmission of MDAN-1.	MDAN-1 contains PR L1A (data & SFDU)
19	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-1 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
20	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
21	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-1.	
22	Repeat steps 13 through 15.		
23	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
24	On the second xterm, send valid MDAN-2 to the MSFC DAAC.	Successful transmission of MDAN-2.	MDAN-2 contains TMI L1A (data & SFDU)
25	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-2 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
26	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	

27	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-2.	
28	Repeat steps 13 through 15.		
29	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
30	On the second xterm, send valid MDAN-3 to the MSFC DAAC.	Successful transmission of MDAN-3.	MDAN-3 contains GV L1B data
31	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-3 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
32	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
33	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-3.	
34	Repeat steps 13 through 15.		
35	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
36	On the second xterm, send valid MDAN-4 to the MSFC DAAC.	Successful transmission of MDAN-4.	MDAN-4 contains VIRS "combined" data
37	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-4 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
38	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
39	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-4.	
40	On the second xterm shutdown the simulator.		
41	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
42	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.10.6 TSDIS FTP-Get and Multiple File Ingest Test Procedures (TS005.004)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to Successful.		
4	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
5	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the GSFC DAAC.		
8	On the first xterm send a valid Authentication Request to the GSFC DAAC.	Successful transmission of Authentication Request.	
9	On the second xterm, after receiving the Authentication Response send valid GDAN-2 to the GSFC DAAC.	Successful transmission of GDAN-2.	GDAN-2 contains VIRS L1A - 1B and Browse data
10	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that GDAN-2 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
11	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
12	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in GDAN-2.	

13	On the second xterm shutdown the simulator.		
14	On the second xterm start up the simulator user interface.		
15	On the first xterm start up the simulator.		
16	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
17	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	
18	On the second xterm, after receiving the Authentication Response send valid MDAN-5 to the MSFC DAAC.	Successful transmission of MDAN-5.	MDAN-5 contains (PR, TMI, GV) L1A - 3B, VIRS “combined” and Browse data
19	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-5 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
20	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
21	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-5.	
22	On the second xterm shutdown the simulator.		
23	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
24	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.11 Data Server Thread (T9)

5.11.1 Authentication Requests with Valid ID Test Procedures (TS006.001)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Remote logon to the ECS Gateway/Data Server Interface workstation. Type: **rlogin mss2sunedf.gsfc.nasa.gov -l** <username> Type: <password>		
2	Start the Gateway process if not currently running. Type: **cd /lr1_IT/CSS/bin/sun5** Type: **Gateway** <port_num> **&**	Gateway process initialized.	
3	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterms. Type: **rlogin pete.gsfc.nasa.gov -l** <username> Type: <password>		Three xterms are used as follows: 1) one for the simulator 2) one for the user interface and 3) one to configure the various files
4	On the third xterm window configure a valid authentication request file by replacing the "xxxxx" with valid information. Type: **cd /data/run_tsdis_sink** Type: **vi dsc_authent_info.txt** Type: <DCE login name> <DCE password> Type: **:wq!**	The authentication request file contains the source machine (i.e., mss2sunedf) and DCE username/password. Verify that all the information is valid.	Machine = mss2sunedf.gsfc.nasa.gov login = DCE login name password = DCE password
5	On the second xterm change directory to the simulator executable directory and then start up the simulator user interface. Type: **cd /data/run_tsdis_sink** Type: **ui_consim**	User interface invoked which is menu-driven.	
6	On the first xterm change directory to the simulator executable directory and then start up the simulator. Type: **cd /data/run_tsdis_sink** Type: **consim**	Successful transmission of Authentication Request.	By invoking the simulator, the authentication request is automatically sent.

7	After receiving the Authentication Response, save and get a printout of it using the third xterm. Type: **prtm %AUTH_RESP_001.msg** Type: **y** Type: **lp -d**<printer> **%AUTH_RESP_001.msg_prt**	Verify that the authentication response indicates the request was accepted with a disposition of "1".	
8	Print the Gateway.log file from mss2sunedf. Type: **lp -d**<printer> **Gateway.log**	Verify that a "successful connection" was logged in the Gateway.log file.	
9	On the second xterm shutdown the simulator. Type: **10** Type: **y**		
10	Logoff all xterm's and then logoff the ECS Gateway/Data Server Interface workstation.		

5.11.2 Authentication Requests with Invalid ID Test Procedures (TS006.002)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Remote logon to the ECS Gateway/Data Server Interface workstation. Type: **rlogin mss2sunedf.gsfc.nasa.gov -l** <username> Type: <password>		
2	Start the Gateway process if not currently running. Type: **cd /lr1_IT/CSS/bin/sun5** Type: **Gateway** <port_num> **&**	Gateway process initialized.	
3	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterms. Type: **rlogin pete.gsfc.nasa.gov -l** <username> Type: <password>		Three xterms are used as follows: 1) one for the simulator 2) one for the user interface and 3) one to configure the various files
4	On the third xterm window configure an invalid authentication request file. Type: **cd /data/run_tsdis_sink** Type: **vi dsc_authent_info.txt** Type: **invalid** (in place of either login name or password)	The authentication request file contains the source machine (i.e., mss2sunedf) and DCE username/password. Verify that an invalid login name or password is used.	machine = mss2sunedf.gsfc.nasa.gov login = DCE login name or invalid password = DCE password or invalid
5	On the second xterm change directory to the simulator executable directory and then start up the simulator user interface. Type: **cd /data/run_tsdis_sink** Type: **ui_consim**	User interface invoked which is menu-driven.	
6	On the first xterm change directory to the simulator executable directory and then start up the simulator. Type: **cd /data/run_tsdis_sink** Type: **consim**	Successful transmission of Authentication Request.	By invoking the simulator, the authentication request is automatically sent.
7	After receiving the Authentication Response, save and get a printout of it using the third xterm. Type: **prtm %AUTH_RESP_001.msg** Type: **y** Type: **lp -d<printer> %AUTH_RESP_001.msg_prt**	Verify that the authentication response indicates the request was rejected with a disposition of "2".	
8	Print the Gateway.log file from mss2sunedf. Type: **lp -d**<printer> **Gateway.log**	Verify that an "unsuccessful connection" was logged in the Gateway.log file.	

9	On the second xterm shutdown the simulator. Type: **10** Type: **y**		
10	Logoff all xterm's and then logoff the ECS Gateway/Data Server Interface workstation.		

5.11.3 Data Request Test - Data Available Test Test Procedures (TS006.003)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the EDF DAAC Data Server workstation.		For in house testing the EDF DAAC Data Server will act as the Data Server for all DAACs.
2	Start the Data Server and Gateway process(es) if they are not currently running.		
3	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
4	On the second xterm change directory to the simulator executable directory and then start up the simulator user interface. Type: *cd /data/TSDIS/consumer* Type: *ui*		
5	On the first xterm change directory to the simulator executable directory and then start up the simulator. Type: *cd /data/TSDIS/consumer* Type: *sim*		
6	On the third xterm window configure the correct Authentication Request file for the GSFC DAAC. Type: *cd /data/TSDIS/consumer* Type: *cp GSFC/valid_AR dsd_dsc_authent_netrc.txt*		
7	On the first xterm send a valid Authentication Request to the GSFC DAAC. Type: *n*	Successful transmission of Authentication Request.	
8	After receiving the Authentication Response get a printout of it using the third xterm. Type: *prtm %AUTH_RESP_001.msg* Type: *y* Type: *lp -d<printer> %AUTH_RESP_001.msg_prt*	The Authentication Response should indicate that your Authentication Request was accepted.	
9	On the third xterm window configure a valid Data Request file for the GSFC DAAC. Type: *cd /data/TSDIS/consumer/data* Type:		

10	On the first xterm send the valid Data Request to the GSFC DAAC. Type: *n*	Successful transmission of Data Request.	
11	After receiving the DAN get a printout of it using the third xterm. Type:	The DAN should indicate that your Data Request was accepted and contain a pointer to the requested files.	
12	On the second xterm shutdown the simulator. Type: *10* Type: *y*		
13	On the second xterm start up the simulator user interface. Type: *ui*		
14	On the first xterm start up the simulator. Type: *sim*		
15	On the third xterm window configure the correct Authentication Request file for the MSFC DAAC. Type: *cp MSFC/valid_AR dsd_dsc_authent_netrc.txt*		
16	On the first xterm send a valid Authentication Request to the MSFC DAAC. Type: *n*	Successful transmission of Authentication Request.	
17	After receiving the Authentication Response get a printout of it using the third xterm. Type: *prtm %AUTH_RESP_001.msg* Type: *y* Type: *lp -d<printer> %AUTH_RESP_001.msg_prt*	The Authentication Response should indicate that your Authentication Request was accepted.	
18	On the third xterm window configure a valid Data Request file for the MSFC DAAC. Type: *cd /data/TSDIS/Consumer/data* Type:		
19	On the first xterm send the valid Data Request to the MSFC DAAC. Type: *n*	Successful transmission of Data Request.	
20	After receiving the DAN get a printout of it using the third xterm. Type:	The DAN should indicate that your Data Request was accepted and contain a pointer to the requested files.	

21	On the second xterm shutdown the simulator. Type: *10* Type: *y*		
22	Logoff all xterm's and then logoff the EDF DAAC Data Server workstation.		

5.11.4 Data Request Test - Data Not Available Test Procedures (TS006.004)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the EDF DAAC Data Server workstation.		For in house testing the EDF DAAC Data Server will act as the Data Server for all DAACs.
2	Start the Data Server process(es) if they are not currently running.		
3	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
4	On the second xterm change directory to the simulator executable directory and then start up the simulator user interface. Type: *cd /data/TSDIS/consumer* Type: *ui*		
5	On the first xterm change directory to the simulator executable directory and then start up the simulator. Type: *cd /data/TSDIS/consumer* Type: *sim*		
6	On the third xterm window configure the correct Authentication Request file for the GSFC DAAC. Type: *cd /data/TSDIS/consumer* Type: *cp GSFC/valid_AR dsd_dsc_authent_netrc.txt*		
7	On the first xterm send a valid Authentication Request to the GSFC DAAC. Type: *n*	Successful transmission of Authentication Request.	
8	After receiving the Authentication Response get a printout of it using the third xterm. Type: *prtm %AUTH_RESP_001.msg* Type: *y* Type: *lp -d<printer> %AUTH_RESP_001.msg_prt*	The Authentication Response should indicate that your Authentication Request was accepted.	
9	On the third xterm window configure an invalid Data Request file for the GSFC DAAC. Type: *cd /data/TSDIS/consumer/data* Type:		

10	On the first xterm send the invalid Data Request to the GSFC DAAC. Type: *n*	Successful transmission of Data Request.	
11	After receiving the DAN get a printout of it using the third xterm. Type:	The DAN should indicate that your Data Request was not accepted.	
12	On the second xterm shutdown the simulator. Type: *10* Type: *y*		
13	On the second xterm start up the simulator user interface. Type: *ui*		
14	On the first xterm start up the simulator. Type: *sim*		
15	On the third xterm window configure the correct Authentication Request file for the MSFC DAAC. Type: *cp MSFC/valid_AR dsd_dsc_authent_netrc.txt*		
16	On the first xterm send a valid Authentication Request to the MSFC DAAC. Type: *n*	Successful transmission of Authentication Request.	
17	After receiving the Authentication Response get a printout of it using the third xterm. Type: *prtm %AUTH_RESP_001.msg* Type: *y* Type: *lp -d<printer> %AUTH_RESP_001.msg_prt*	The Authentication Response should indicate that your Authentication Request was accepted.	
18	On the third xterm window configure an invalid Data Request file for the MSFC DAAC. Type: *cd /data/TSDIS/Consumer/data* Type:		
19	On the first xterm send the invalid Data Request to the MSFC DAAC. Type: *n*	Successful transmission of Data Request.	
20	After receiving the DAN get a printout of it using the third xterm. Type:	The DAN should indicate that your Data Request was not accepted.	

21	On the second xterm shutdown the simulator. Type: *10* Type: *y*		
22	Logoff all xterm's and then logoff the EDF DAAC Data Server workstation.		

5.12 TRMM Interface Build (B3)

5.12.1 SDPF FTP-Get File Validation and Ingest Test Procedures (BS002.001)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to Successful.		
4	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
5	Remote logon to the simulated Data Provider (SDPF) workstation three times using three xterm's.		
6	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
7	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
8	On the third xterm window configure the correct authentication request file (valid) for the LaRC DAAC.		
9	On the first xterm send a valid Authentication Request to the LaRC DAAC.	Successful transmission of Authentication Request.	
10	On the second xterm, after receiving the Authentication Response send valid LDAN-1 to the LaRC DAAC.	Successful transmission of LDAN-1.	LDAN-1 contains CERES QL (data & SFDU).

11	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that LDAN-1 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
12	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
13	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in LDAN-1.	
14	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the LaRC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
15	On the second xterm shutdown the simulator.		
16	On the second xterm start up the simulator user interface.		
17	On the first xterm start up the simulator.		
18	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
19	On the second xterm, send valid LDAN-2 to the LaRC DAAC.	Successful transmission of LDAN-2.	LDAN-2 contains CERES L0 (data & SFDU) and TRMM Predictive & Definitive 0rbit data.
20	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that LDAN-2 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the Authentication Response, DAA and DDN in ASCII form.
21	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
22	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in LDAN-2.	
23	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the LaRC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
24	Repeat steps 15 through 17.		

25	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
26	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	
27	On the second xterm, after receiving the Authentication Response send valid MDAN-1 to the MSFC DAAC.	Successful transmission of MDAN-1.	MDAN-1 contains LIS QL (data & SFDU)
28	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-1 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
29	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
30	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-1.	
31	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the MSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
32	Repeat steps 15 through 17.		
33	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
34	On the second xterm, send valid MDAN-2 to the MSFC DAAC.	Successful transmission of MDAN-2.	MDAN-2 contains LIS L0 (data & SFDU) and TRMM Predictive & Definitive 0rbit data.
35	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that MDAN-2 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
36	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
37	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in MDAN-2.	

38	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the MSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
39	On the second xterm shutdown the simulator.		
40	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.12.2 SDPF FTP-Get File Validation and Ingest Test Procedures (BS002.002)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to Successful.		
4	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory. Type: *rm -f /lr1_IT/INGEST/temp_store/**		
5	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
6	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
7	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
8	On the third xterm window configure the correct authentication request file (valid) for the GSFC DAAC.		
9	On the first xterm send a valid Authentication Request to the GSFC DAAC.	Successful transmission of Authentication Request.	
10	On the second xterm, after receiving the Authentication Response send valid GDAN-1 to the GSFC DAAC.	Successful transmission of GDAN-1.	GDAN-1 contains VIRS L1A (data & SFDU)
11	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that GDAN-1 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.

12	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
13	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in GDAN-1.	
14	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the GSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
15	On the second xterm shutdown the simulator.		
16	On the second xterm start up the simulator user interface.		
17	On the first xterm start up the simulator.		
18	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
19	On the second xterm, send valid GDAN-2 to the GSFC DAAC.	Successful transmission of GDAN-2.	GDAN-2 contains VIRS L1A - 1B and Browse data
20	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that GDAN-2 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
21	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
22	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in the GDAN-2.	
23	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the GSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
24	Repeat steps 15 through 17.		
25	On the third xterm window configure the correct authentication request file for the MSFC DAAC.		
26	On the first xterm send a valid Authentication Request to the MSFC DAAC.	Successful transmission of Authentication Request.	
27	On the second xterm, after receiving the Authentication Response send valid MDAN-1 to the MSFC DAAC.	Successful transmission of MDAN-1.	MDAN-1 contains PR L1A (data & SFDU)

28	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that the MDAN-1 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
29	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
30	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in the MDAN-1.	
31	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the MSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
32	Repeat steps 15 through 17.		
33	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
34	On the second xterm, send valid MDAN-2 to the MSFC DAAC.	Successful transmission of MDAN-2.	MDAN-2 contains TMI L1A (data & SFDU)
35	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that the MDAN-2 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
36	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
37	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in the MDAN-2.	
38	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the MSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
39	Repeat steps 15 through 17.		
40	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
41	On the second xterm, send valid MDAN-3 to the MSFC DAAC.	Successful transmission of MDAN-3.	MDAN-3 contains GV L1B data

42	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that the MDAN-3 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
43	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
44	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in the MDAN-3.	
45	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the MSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
46	Repeat steps 15 through 17.		
47	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
48	On the second xterm, send valid MDAN-4 to the MSFC DAAC.	Successful transmission of MDAN-4.	MDAN-4 contains VIRS “combined” data
49	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that the MDAN-4 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
50	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
51	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in the MDAN-4.	
52	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the MSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
53	Repeat steps 15 through 17.		
54	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
55	On the second xterm, send valid MDAN-5 to the MSFC DAAC.	Successful transmission of MDAN-5.	MDAN-5 contains (PR, TMI, GV) L1A - 3B, VIRS “combined” and Browse data

56	After the DAAC Ingest Server receives the DDA get a printout of the DDN, the DAA, and the Authentication Response using the third xterm and then delete all messages.	The Authentication Response should indicate that your Authentication Request was accepted. The DAA should indicate that the MDAN-5 was accepted. The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the Authentication Response, DAA and DDN in ASCII form.
57	On the DAAC Ingest Server workstation, printout the Event Log.	The Event Log should contain entries for all of the ingest messages.	
58	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The listing of the temporary storage directory should contain all files identified in the MDAN-5.	
59	On the DAAC Ingest Server workstation use the UNIX data comparison tool "diff" to compare the data received at the MSFC DAAC to the original data at the simulated SDPF.	The comparison too should return a successful comparison.	
60	On the second xterm shutdown the simulator.		
61	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.12.3 SDPF Status Reporting Test Procedures (BS002.003)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Invalid Data Type.		Edit 'DAAErrorFile.dat' file to contain: 2 1
4	Remote logon to the simulated Data Provider (SDPF) workstation three times using three xterm's.		
5	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the LaRC DAAC.		
8	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
9	On the second xterm, after receiving the Authentication Response send valid LDAN-4 to the LaRC DAAC.		
10	After receiving the DAA get a printout of it using the third xterm.	The DAA should indicate that the Data Type was invalid.	Use the parser tool 'prtm' to get the DAA in ASCII form.
11	On the second xterm shutdown the simulator.		
12	On the second xterm start up the simulator user interface.		
13	On the first xterm start up the simulator.		
14	On the DAAC Ingest workstation set the DAA message option to Missing Required Request Information.		Edit 'DAAErrorFile.dat' file to contain: 1 15
15	On the first xterm send a valid Authentication Request to the LaRC DAAC.		

16	On the second xterm, send valid LDAN-5 to the LaRC DAAC.		
17	After receiving the DAA get a printout of it using the third xterm.	The DAA should indicate that the DAN was missing required request information.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
18	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to File Transfer Error.		Edit ‘DAAErrorFile.dat’ file to contain: 1 15 Edit ‘DDNErrorFile.dat’ file to contain: 1 5
19	Repeat steps 11 through 13.		
20	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
21	On the second xterm, send valid LDAN-6 to the LaRC DAAC.		
22	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a file transfer error.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.
23	On the DAAC Ingest workstation set the DDN message option to File Size Discrepancy Error.		Edit ‘DDNErrorFile.dat’ file to contain: 2 8
24	Repeat steps 11 through 13.		
25	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
26	On the second xterm, send valid LDAN-7 to the LaRC DAAC.		
27	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a file size discrepancy error.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.
28	On the DAAC Ingest workstation set the DDN message option to Missing Required Metadata Error.		Edit ‘DDNErrorFile.dat’ file to contain: 2 9
29	Repeat steps 11 through 13.		
30	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
31	On the second xterm, send valid LDAN-8 to the LaRC DAAC.		
32	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was missing required metadata.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.

33	On the DAAC Ingest workstation set the DDN message option to Metadata Parameters Out Of Range Error.		Edit 'DDNErrorFile.dat' file to contain: 2 10
34	Repeat steps 11 through 13.		
35	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
36	On the second xterm, send valid LDAN-9 to the LaRC DAAC.		
37	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a metadata out of range error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
38	On the DAAC Ingest workstation set the DDN message option to Data Conversion Error.		Edit 'DDNErrorFile.dat' file to contain: 2 11
39	Repeat steps 11 through 13.		
40	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
41	On the second xterm, send valid LDAN-10 to the LaRC DAAC.		
42	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a data conversion error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
43	On the DAAC Ingest workstation set the DDN message option to Archive Failure Error.		Edit 'DDNErrorFile.dat' file to contain: 2 12
44	Repeat steps 11 through 13.		
45	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
46	On the second xterm, send valid LDAN-11 to the LaRC DAAC.		
47	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was an archive failure error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
48	On the DAAC Ingest workstation set the DDN message option to Inability to Transfer Data Within Available Time Window Error.		Edit 'DDNErrorFile.dat' file to contain: 2 13
49	Repeat steps 11 through 13.		
50	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
51	On the second xterm, send valid LDAN-12 to the LaRC DAAC.		

52	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate the inability to transfer data within the available time window.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.
53	On the DAAC Ingest workstation set the DDN message option to Successful.		Edit ‘DDNErrorFile.dat’ file to contain: 1 0
54	Repeat steps 11 through 13.		
55	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
56	On the second xterm, send valid LDAN-13 to the LaRC DAAC.		
57	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.
58	Repeat steps 11 through 13.		
59	On the first xterm reset the simulator to INTERACTIVE mode.		
60	On the second xterm send an Authentication Request with an invalid message type to the LaRC DAAC.		
61	On the DAAC Gateway workstation printout the Gateway Event Log.	The Gateway Event Log should contain an entry stating that it received an invalid message.	
62	Repeat steps 11 through 13 and 59.		
63	On the second xterm send a valid Authentication Request to the LaRC DAAC.		
64	On the second xterm, after receiving the DAA send LDAN-14.		
65	On the second xterm, after receiving the DDN send the DDA with a DAN_SEQ_NO = 111.		
66	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating that it received a DDA with a DAN_SEQ_NO = 111 which does not match any requests in the request list.	
67	Repeat steps 11 through 13.		
68	On the first xterm send a valid Authentication Request to the LaRC DAAC.		
69	On the second xterm, after receiving the Authentication Response send LDAN-15.		

70	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating that it received a DAN with an invalid DAN_SEQ_NO.	
71	Repeat steps 11 through 13.		
72	On the first xterm send a valid Authentication Request to the LaRC DAAC and the immediately 'kill' the simulator..		
73	On the DAAC Gateway workstation printout the Gateway Event Log.	The Gateway Event Log should contain an entry stating that there was a communications failure with the external data provider	
74	Repeat steps 11 through 13.		
75	On the DAAC Ingest workstation, edit the 'SDPF_AcctProfile.dat' file to contain an invalid username.		
76	On the second xterm send a valid Authentication Request to the LaRC DAAC.		
77	On the second xterm, after receiving the DAA send LDAN-16.		
78	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
79	Repeat steps 11 through 13.		
80	On the DAAC Ingest workstation, edit the 'SDPF_AcctProfile.dat' file to contain an valid username but invalid password.		
81	On the second xterm send a valid Authentication Request to the LaRC DAAC.		
82	On the second xterm, after receiving the DAA send LDAN-16.		
83	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
84	Repeat steps 11 through 13.		
85	On the DAAC Ingest workstation, edit the 'SDPF_AcctProfile.dat' file to contain an valid username and valid password.		
86	On the second xterm send a valid Authentication Request to the LaRC DAAC.		
87	On the second xterm, after receiving the DAA send LDAN-17.		
88	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	

89	Repeat steps 11 through 13.		
90	On the second xterm send a valid Authentication Request to the LaRC DAAC.		
91	On the second xterm, after receiving the DAA send LDAN-18.		
92	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
93	Repeat step 11.		
94	On the second xterm change directory to the SDPF simulator executable directory and then start up the simulator user interface.		
95	On the first xterm change directory to the SDPF simulator executable directory and then start up the simulator.		
96	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
97	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
98	On the second xterm, after receiving the Authentication Response send valid MDAN-4 to the MSFC DAAC.		
99	After receiving the DAA get a printout of it using the third xterm.	The DAA should indicate that the Data Type was invalid.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
100	On the second xterm shutdown the simulator.		
101	On the second xterm start up the simulator user interface.		
102	On the first xterm start up the simulator.		
103	On the DAAC Ingest workstation set the DAA message option to Missing Required Request Information.		Edit ‘DAAErrorFile.dat’ file to contain: 1 15
104	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
105	On the second xterm, send valid MDAN-5 to the MSFC DAAC.		
106	After receiving the DAA get a printout of it using the third xterm.	The DAA should indicate that the DAN was missing required request information.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.

107	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to File Transfer Error.		Edit 'DAAErrorFile.dat' file to contain: 1 15 Edit 'DDNErrorFile.dat' file to contain: 1 5
108	Repeat steps 11 through 13.		
109	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
110	On the second xterm, send valid MDAN-6 to the MSFC DAAC.		
111	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a file transfer error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
112	On the DAAC Ingest workstation set the DDN message option to File Size Discrepancy Error.		Edit 'DDNErrorFile.dat' file to contain: 2 8
113	Repeat steps 11 through 13.		
114	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
115	On the second xterm, send valid MDAN-7 to the MSFC DAAC.		
116	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a file size discrepancy error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
117	On the DAAC Ingest workstation set the DDN message option to Missing Required Metadata Error.		Edit 'DDNErrorFile.dat' file to contain: 2 9
118	Repeat steps 11 through 13.		
119	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
120	On the second xterm, send valid MDAN-8 to the MSFC DAAC.		
121	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was missing required metadata.	Use the parser tool 'prtm' to get the DDN in ASCII form.
122	On the DAAC Ingest workstation set the DDN message option to Metadata Parameters Out Of Range Error.		Edit 'DDNErrorFile.dat' file to contain: 2 10
123	Repeat steps 11 through 13.		
124	On the first xterm send a valid Authentication Request to the MSFC DAAC.		

125	On the second xterm, send valid MDAN-9 to the MSFC DAAC.		
126	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a metadata out of range error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
127	On the DAAC Ingest workstation set the DDN message option to Data Conversion Error.		Edit 'DDNErrorFile.dat' file to contain: 2 11
128	Repeat steps 11 through 13.		
129	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
130	On the second xterm, send valid MDAN-10 to the MSFC DAAC.		
131	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a data conversion error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
132	On the DAAC Ingest workstation set the DDN message option to Archive Failure Error.		Edit 'DDNErrorFile.dat' file to contain: 2 12
133	Repeat steps 11 through 13.		
134	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
135	On the second xterm, send valid MDAN-11 to the MSFC DAAC.		
136	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was an archive failure error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
137	On the DAAC Ingest workstation set the DDN message option to Inability to Transfer Data Within Available Time Window Error.		Edit 'DDNErrorFile.dat' file to contain: 2 13
138	Repeat steps 11 through 13.		
139	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
140	On the second xterm, send valid MDAN-12 to the MSFC DAAC.		
141	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate the inability to transfer data within the available time window.	Use the parser tool 'prtm' to get the DDN in ASCII form.
142	On the DAAC Ingest workstation set the DDN message option to Successful.		Edit 'DDNErrorFile.dat' file to contain: 1 0
143	Repeat steps 11 through 13.		

144	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
145	On the second xterm, send valid MDAN-13 to the MSFC DAAC.		
146	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.
147	Repeat steps 11 through 13.		
148	On the first xterm reset the simulator to INTERACTIVE mode.		
149	On the second xterm send an Authentication Request with an invalid message type to the MSFC DAAC.		
150	On the DAAC Gateway workstation printout the Gateway Event Log.	The Gateway Event Log should contain an entry stating that it received an invalid message.	
151	Repeat steps 11 through 13 and 59.		
152	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
153	On the second xterm, after receiving the DAA send MDAN-14.		
154	On the second xterm, after receiving the DDN send the DDA with a DAN_SEQ_NO = 111.		
155	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating that it received a DDA with a DAN_SEQ_NO = 111 which does not match any requests in the request list.	
156	Repeat steps 11 through 13.		
157	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
158	On the second xterm, after receiving the Authentication Response send MDAN-15.		
159	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating that it received a DAN with an invalid DAN_SEQ_NO.	
160	Repeat steps 11 through 13.		
161	On the first xterm send a valid Authentication Request to the MSFC DAAC and the immediately ‘kill’ the simulator..		

162	On the DAAC Gateway workstation printout the Gateway Event Log.	The Gateway Event Log should contain an entry stating that there was a communications failure with the external data provider	
163	Repeat steps 11 through 13.		
164	On the DAAC Ingest workstation, edit the 'SDPF_AcctProfile.dat' file to contain an invalid username.		
165	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
166	On the second xterm, after receiving the DAA send MDAN-16.		
167	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
168	Repeat steps 11 through 13.		
169	On the DAAC Ingest workstation, edit the 'SDPF_AcctProfile.dat' file to contain an valid username but invalid password.		
170	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
171	On the second xterm, after receiving the DAA send MDAN-16.		
172	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
173	Repeat steps 11 through 13.		
174	On the DAAC Ingest workstation, edit the 'SDPF_AcctProfile.dat' file to contain an valid username and valid password.		
175	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
176	On the second xterm, after receiving the DAA send MDAN-17.		
177	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
178	Repeat steps 11 through 13.		
179	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
180	On the second xterm, after receiving the DAA send MDAN-18.		
181	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
182	Repeat step 11.		

183	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.12.4 TSDIS Status Reporting Test Procedures (BS002.004)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the DAAC Ingest Server and Gateway Server workstations.		For in house testing the EDF DAAC Ingest and Gateway Servers and will act as the Ingest and Gateway Servers for all DAACs.
2	Start the Gateway and Ingest Server processes if they are not currently running. You must dce_login prior to starting the Ingest Server process.		
3	On the DAAC Ingest workstation set the DAA message option to Invalid Data Type.		Edit 'DAAErrorFile.dat' file to contain: 2 1
4	Remote logon to the simulated Data Provider (TSDIS) workstation three times using three xterm's.		
5	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
6	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
7	On the third xterm window configure the correct authentication request file (valid) for the GSFC DAAC.		
8	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
9	On the second xterm, after receiving the Authentication Response send valid GDAN-4 to the GSFC DAAC.		
10	After receiving the DAA get a printout of it using the third xterm.	The DAA should indicate that the Data Type was invalid.	Use the parser tool 'prtm' to get the DAA in ASCII form.
11	On the second xterm shutdown the simulator.		
12	On the second xterm start up the simulator user interface.		
13	On the first xterm start up the simulator.		
14	On the DAAC Ingest workstation set the DAA message option to Missing Required Request Information.		Edit 'DAAErrorFile.dat' file to contain: 1 15
15	On the first xterm send a valid Authentication Request to the GSFC DAAC.		

16	On the second xterm, send valid GDAN-5 to the GSFC DAAC.		
17	After receiving the DAA get a printout of it using the third xterm.	The DAA should indicate that the DAN was missing required request information.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
18	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to File Transfer Error.		Edit ‘DAAErrorFile.dat’ file to contain: 1 15 Edit ‘DDNErrorFile.dat’ file to contain: 1 5
19	Repeat steps 11 through 13.		
20	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
21	On the second xterm, send valid GDAN-6 to the GSFC DAAC.		
22	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a file transfer error.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.
23	On the DAAC Ingest workstation set the DDN message option to File Size Discrepancy Error.		Edit ‘DDNErrorFile.dat’ file to contain: 2 8
24	Repeat steps 11 through 13.		
25	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
26	On the second xterm, send valid GDAN-7 to the GSFC DAAC.		
27	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a file size discrepancy error.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.
28	On the DAAC Ingest workstation set the DDN message option to Missing Required Metadata Error.		Edit ‘DDNErrorFile.dat’ file to contain: 2 9
29	Repeat steps 11 through 13.		
30	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
31	On the second xterm, send valid GDAN-8 to the GSFC DAAC.		
32	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was missing required metadata.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.

33	On the DAAC Ingest workstation set the DDN message option to Metadata Parameters Out Of Range Error.		Edit 'DDNErrorFile.dat' file to contain: 2 10
34	Repeat steps 11 through 13.		
35	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
36	On the second xterm, send valid GDAN-9 to the GSFC DAAC.		
37	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a metadata out of range error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
38	On the DAAC Ingest workstation set the DDN message option to Data Conversion Error.		Edit 'DDNErrorFile.dat' file to contain: 2 11
39	Repeat steps 11 through 13.		
40	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
41	On the second xterm, send valid GDAN-10 to the GSFC DAAC.		
42	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a data conversion error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
43	On the DAAC Ingest workstation set the DDN message option to Archive Failure Error.		Edit 'DDNErrorFile.dat' file to contain: 2 12
44	Repeat steps 11 through 13.		
45	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
46	On the second xterm, send valid GDAN-11 to the GSFC DAAC.		
47	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was an archive failure error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
48	On the DAAC Ingest workstation set the DDN message option to Inability to Transfer Data Within Available Time Window Error.		Edit 'DDNErrorFile.dat' file to contain: 2 13
49	Repeat steps 11 through 13.		
50	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
51	On the second xterm, send valid GDAN-12 to the GSFC DAAC.		

52	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate the inability to transfer data within the available time window.	Use the parser tool 'prtm' to get the DDN in ASCII form.
53	On the DAAC Ingest workstation set the DDN message option to Successful.		Edit 'DDNErrorFile.dat' file to contain: 1 0
54	Repeat steps 11 through 13.		
55	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
56	On the second xterm, send valid GDAN-13 to the GSFC DAAC.		
57	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that the data was transferred successfully.	Use the parser tool 'prtm' to get the DDN in ASCII form.
58	Repeat steps 11 through 13.		
59	On the first xterm reset the simulator to INTERACTIVE mode.		
60	On the second xterm send an Authentication Request with an invalid message type to the GSFC DAAC.		
61	On the DAAC Gateway workstation printout the Gateway Event Log.	The Gateway Event Log should contain an entry stating that it received an invalid message.	
62	Repeat steps 11 through 13 and 59.		
63	On the second xterm send a valid Authentication Request to the GSFC DAAC.		
64	On the second xterm, after receiving the DAA send GDAN-14.		
65	On the second xterm, after receiving the DDN send the DDA with a DAN_SEQ_NO = 111.		
66	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating that it received a DDA with a DAN_SEQ_NO = 111 which does not match any requests in the request list.	
67	Repeat steps 11 through 13.		
68	On the first xterm send a valid Authentication Request to the GSFC DAAC.		
69	On the second xterm, after receiving the Authentication Response send GDAN-15.		

70	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating that it received a DAN with an invalid DAN_SEQ_NO.	
71	Repeat steps 11 through 13.		
72	On the first xterm send a valid Authentication Request to the GSFC DAAC and the immediately 'kill' the simulator..		
73	On the DAAC Gateway workstation printout the Gateway Event Log.	The Gateway Event Log should contain an entry stating that there was a communications failure with the external data provider	
74	Repeat steps 11 through 13.		
75	On the DAAC Ingest workstation, edit the 'TSDIS_AcctProfile.dat' file to contain an invalid username.		
76	On the second xterm send a valid Authentication Request to the GSFC DAAC.		
77	On the second xterm, after receiving the DAA send GDAN-16.		
78	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
79	Repeat steps 11 through 13.		
80	On the DAAC Ingest workstation, edit the 'TSDIS_AcctProfile.dat' file to contain an valid username but invalid password.		
81	On the second xterm send a valid Authentication Request to the GSFC DAAC.		
82	On the second xterm, after receiving the DAA send GDAN-16.		
83	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
84	Repeat steps 11 through 13.		
85	On the DAAC Ingest workstation, edit the 'TSDIS_AcctProfile.dat' file to contain an valid username and valid password.		
86	On the second xterm send a valid Authentication Request to the GSFC DAAC.		
87	On the second xterm, after receiving the DAA send GDAN-17.		
88	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	

89	Repeat steps 11 through 13.		
90	On the second xterm send a valid Authentication Request to the GSFC DAAC.		
91	On the second xterm, after receiving the DAA send GDAN-18.		
92	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
93	Repeat step 11.		
94	On the second xterm change directory to the TSDIS simulator executable directory and then start up the simulator user interface.		
95	On the first xterm change directory to the TSDIS simulator executable directory and then start up the simulator.		
96	On the third xterm window configure the correct authentication request file (valid) for the MSFC DAAC.		
97	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
98	On the second xterm, after receiving the Authentication Response send valid MDAN-7 to the MSFC DAAC.		
99	After receiving the DAA get a printout of it using the third xterm.	The DAA should indicate that the Data Type was invalid.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.
100	On the second xterm shutdown the simulator.		
101	On the second xterm start up the simulator user interface.		
102	On the first xterm start up the simulator.		
103	On the DAAC Ingest workstation set the DAA message option to Missing Required Request Information.		Edit ‘DAAErrorFile.dat’ file to contain: 1 15
104	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
105	On the second xterm, send valid MDAN-8 to the MSFC DAAC.		
106	After receiving the DAA get a printout of it using the third xterm.	The DAA should indicate that the DAN was missing required request information.	Use the parser tool ‘prtm’ to get the DAA in ASCII form.

107	On the DAAC Ingest workstation set the DAA message option to Accepted and the DDN message option to File Transfer Error.		Edit 'DAAErrorFile.dat' file to contain: 1 15 Edit 'DDNErrorFile.dat' file to contain: 1 5
108	Repeat steps 11 through 13.		
109	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
110	On the second xterm, send valid MDAN-9 to the MSFC DAAC.		
111	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a file transfer error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
112	On the DAAC Ingest workstation set the DDN message option to File Size Discrepancy Error.		Edit 'DDNErrorFile.dat' file to contain: 2 8
113	Repeat steps 11 through 13.		
114	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
115	On the second xterm, send valid MDAN-10 to the MSFC DAAC.		
116	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a file size discrepancy error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
117	On the DAAC Ingest workstation set the DDN message option to Missing Required Metadata Error.		Edit 'DDNErrorFile.dat' file to contain: 2 9
118	Repeat steps 11 through 13.		
119	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
120	On the second xterm, send valid MDAN-11 to the MSFC DAAC.		
121	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was missing required metadata.	Use the parser tool 'prtm' to get the DDN in ASCII form.
122	On the DAAC Ingest workstation set the DDN message option to Metadata Parameters Out Of Range Error.		Edit 'DDNErrorFile.dat' file to contain: 2 10
123	Repeat steps 11 through 13.		
124	On the first xterm send a valid Authentication Request to the MSFC DAAC.		

125	On the second xterm, send valid MDAN-12 to the MSFC DAAC.		
126	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a metadata out of range error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
127	On the DAAC Ingest workstation set the DDN message option to Data Conversion Error.		Edit 'DDNErrorFile.dat' file to contain: 2 11
128	Repeat steps 11 through 13.		
129	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
130	On the second xterm, send valid MDAN-13 to the MSFC DAAC.		
131	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was a data conversion error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
132	On the DAAC Ingest workstation set the DDN message option to Archive Failure Error.		Edit 'DDNErrorFile.dat' file to contain: 2 12
133	Repeat steps 11 through 13.		
134	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
135	On the second xterm, send valid MDAN-14 to the MSFC DAAC.		
136	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that there was an archive failure error.	Use the parser tool 'prtm' to get the DDN in ASCII form.
137	On the DAAC Ingest workstation set the DDN message option to Inability to Transfer Data Within Available Time Window Error.		Edit 'DDNErrorFile.dat' file to contain: 2 13
138	Repeat steps 11 through 13.		
139	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
140	On the second xterm, send valid MDAN-15 to the MSFC DAAC.		
141	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate the inability to transfer data within the available time window.	Use the parser tool 'prtm' to get the DDN in ASCII form.
142	On the DAAC Ingest workstation set the DDN message option to Successful.		Edit 'DDNErrorFile.dat' file to contain: 1 0
143	Repeat steps 11 through 13.		

144	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
145	On the second xterm, send valid MDAN-16 to the MSFC DAAC.		
146	After receiving the DDN get a printout of it using the third xterm.	The DDN should indicate that the data was transferred successfully.	Use the parser tool ‘prtm’ to get the DDN in ASCII form.
147	Repeat steps 11 through 13.		
148	On the first xterm reset the simulator to INTERACTIVE mode.		
149	On the second xterm send an Authentication Request with an invalid message type to the MSFC DAAC.		
150	On the DAAC Gateway workstation printout the Gateway Event Log.	The Gateway Event Log should contain an entry stating that it received an invalid message.	
151	Repeat steps 11 through 13 and 59.		
152	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
153	On the second xterm, after receiving the DAA send MDAN-17.		
154	On the second xterm, after receiving the DDN send the DDA with a DAN_SEQ_NO = 111.		
155	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating that it received a DDA with a DAN_SEQ_NO = 111 which does not match any requests in the request list.	
156	Repeat steps 11 through 13.		
157	On the first xterm send a valid Authentication Request to the MSFC DAAC.		
158	On the second xterm, after receiving the Authentication Response send MDAN-18.		
159	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating that it received a DAN with an invalid DAN_SEQ_NO.	
160	Repeat steps 11 through 13.		
161	On the first xterm send a valid Authentication Request to the MSFC DAAC and the immediately ‘kill’ the simulator..		

162	On the DAAC Gateway workstation printout the Gateway Event Log.	The Gateway Event Log should contain an entry stating that there was a communications failure with the external data provider	
163	Repeat steps 11 through 13.		
164	On the DAAC Ingest workstation, edit the 'TSDIS_AcctProfile.dat' file to contain an invalid username.		
165	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
166	On the second xterm, after receiving the DAA send MDAN-19.		
167	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
168	Repeat steps 11 through 13.		
169	On the DAAC Ingest workstation, edit the 'TSDIS_AcctProfile.dat' file to contain an valid username but invalid password.		
170	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
171	On the second xterm, after receiving the DAA send MDAN-19.		
172	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
173	Repeat steps 11 through 13.		
174	On the DAAC Ingest workstation, edit the 'TSDIS_AcctProfile.dat' file to contain an valid username and valid password.		
175	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
176	On the second xterm, after receiving the DAA send MDAN-20.		
177	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
178	Repeat steps 11 through 13.		
179	On the second xterm send a valid Authentication Request to the MSFC DAAC.		
180	On the second xterm, after receiving the DAA send MDAN-21.		
181	On the DAAC Ingest workstation printout the Ingest Event Log.	The Ingest Event Log should contain an entry stating FTP error.	
182	Repeat step 11.		

183	Logoff all xterm's and then logoff the DAAC Ingest and Gateway Server workstations.		

5.12.5 NESDIS And GDAO Polling Ingest Test Procedures (BS002.005)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to the EDF DAAC Ingest Server workstation.		For in house testing the EDF DAAC Ingest Server will act as the Ingest Server for all DAACs.
2	Remote logon to the simulated Data Provider (NESDIS) workstation using an xterm.		
3	Set the POLL_TIMER variable to 30 seconds.		
4	Start the Ingest Server Polling process without any of the arguments on the Ingest Server workstation..		
5	After 1 minute print-out the Event log at the simulated LaRC DAAC.	The Event log should contain a Polling Ingest entry stating that the environment variables have not been set.	
6	Start the Ingest Server Polling process without the Delivery Record argument on the Ingest Server workstation.		
7	After 1 minute print-out the Event log at the simulated LaRC DAAC.	The Event log should contain a Polling Ingest entry stating that the Delivery Record File Flag environment variable has not been set.	
8	Start the Ingest Server Polling process without the Data Type argument on the Ingest Server workstation.		
9	After 1 minute print-out the Event log at the simulated LaRC DAAC.	The Event log should contain a Polling Ingest entry stating that the Directory and Data Type environment variables have not been set.	
10	Start the Ingest Server Polling process with all of the necessary arguments on the Ingest Server workstation.		
11	After 2 minutes print-out the Event log at the simulated LaRC DAAC.	The Event log should contain a Polling Ingest entry every 30 seconds.	
12	Set the POLL_TIMER variable to 60 seconds.		
13	After 4 minutes print-out the Event log at the simulated LaRC DAAC.	The Event log should contain a Polling Ingest entry every 60 seconds.	
14	Set the POLL_TIMER variable to 600 seconds.		

15	On the simulated NESDIS workstation place simulated TRMM ancillary data files in the LaRC DAAC Ingest directory.		Ancillary data files: anc_vin_11 anc_vin_12 anc_vin_13
16	After 10 minutes print-out the Event log at the simulated LaRC DAAC.	The log should contain a Polling Ingest entry identifying the TRMM ancillary data files that were placed in the LaRC DAAC Ingest directory on the simulated NESDIS workstation.	
17	Print-out the Polling Ingest comparison file NOAA.Old	The file NOAA.Old should list the files that were ingested.	NOAA.Old should list the following: anc_vin_11 anc_vin_12 anc_vin_13
18	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The directory listing should contain the data that were in the LaRC DAAC Ingest directory on the NESDIS workstation.	
19	Use the UNIX data comparison tool "diff" to compare the data received at the simulated LaRC DAAC to the original data at the simulated NESDIS.	The comparison tool should return a successful comparison.	
20	After 10 minutes print-out the Event log at the simulated LaRC DAAC.	The log should contain a Polling Ingest entry stating that no new TRMM ancillary data was placed in the LaRC DAAC Ingest directory on the simulated NESDIS workstation.	
21	Print-out the Polling Ingest comparison file NOAA.Old	The file NOAA.Old should not have any new files listed.	NOAA.Old should list the following: anc_vin_11 anc_vin_12 anc_vin_13
22	On the simulated NESDIS workstation place simulated TRMM ancillary data files in the LaRC DAAC Ingest directory.		Ancillary data files: anc_agaf_21 anc_agaf_22
23	After 10 minutes print-out the Event log at the simulated LaRC DAAC.	The log should contain a Polling Ingest entry identifying the TRMM ancillary data that were placed in the LaRC DAAC Ingest directory on the simulated NESDIS workstation.	

24	Print-out the Polling Ingest comparison file NOAA.Old	The file NOAA.Old should list the new files that were ingested along with the previous files that had been ingested.	NOAA.Old should list the following: anc_vin_11 anc_vin_12 anc_vin_13 anc_agaf_21 anc_agaf_22
25	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The directory listing should contain the data that were in the LaRC DAAC Ingest directory on the NESDIS workstation.	
26	Use the UNIX data comparison tool "diff" to compare the data received at the simulated LaRC DAAC to the original data at the simulated NESDIS.	The comparison tool should return a successful comparison.	
27	On the simulated NESDIS workstation delete, from the LaRC Ingest directory, the first TRMM ancillary files that were placed in their. Then place a simulated TRMM ancillary file in the LaRC Ingest directory.		Files to delete: anc_vin_11 anc_vin_12 anc_vin_13 Ancillary data file to add: anc_sic_3
28	After 10 minutes print-out the Event log at the simulated LaRC DAAC.	The log should contain a Polling Ingest entry identifying the TRMM ancillary data that was placed in the LaRC DAAC Ingest directory on the simulated NESDIS workstation.	
29	Print-out the Polling Ingest comparison file NOAA.Old	The file NOAA.Old should list the new file that was ingested along with the second group of files that had been ingested but not list the files that was deleted in step 28.	NOAA.Old should list the following: anc_agaf_21 anc_agaf_22 anc_sic_3
30	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The directory listing should contain the data that was in the LaRC DAAC Ingest directory on the NESDIS workstation.	
31	Use the UNIX data comparison tool "diff" to compare the data received at the simulated LaRC DAAC to the original data at the simulated NESDIS.	The comparison tool should return a successful comparison.	
32	Logoff the simulated Data Provider (NESDIS) workstation.		
33	Remote logon to the simulated Data Provider (GDAO) workstation using an xterm.		

34	On the simulated GDAO workstation place simulated TRMM ancillary data files in the GSFC DAAC Ingest directory.		Ancillary data files: anc_eta_11 anc_fnl_11 anc_fnl_12
35	After 10 minutes print-out the Event log at the simulated GSFC DAAC.	The log should contain a Polling Ingest entry identifying the TRMM ancillary data that were placed in the GSFC DAAC Ingest directory on the simulated GDAO workstation.	
36	Print-out the Polling Ingest comparison file NOAA.Old	The file NOAA.Old should list the files that were ingested.	NOAA.Old should list the following: anc_agaf_21 anc_agaf_22 anc_sic_3 anc_eta_11 anc_fnl_11 anc_fnl_12
37	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The directory listing should contain the data that were in the GSFC DAAC Ingest directory on the NESDIS workstation.	
38	Use the UNIX data comparison tool "diff" to compare the data received at the simulated GSFC DAAC to the original data at the simulated GDAO.	The comparison tool should return a successful comparison.	
39	On the simulated GDAO workstation place simulated TRMM ancillary data files in the LaRC DACC Ingest directory.		Ancillary data files: anc_eta_12 anc_mrf_11 anc_mrf_12
40	After a 10 minutes print-out the Event log at the simulated LaRC DAAC.	The log should contain a Polling Ingest Request entry identifying the TRMM ancillary data that were placed in the LaRC DAAC Ingest directory on the GDAO workstation.	

41	Print-out the Polling Ingest comparison file NOAA.Old	The file NOAA.Old should list the files that were ingested.	NOAA.Old should list the following: anc_agaf_21 anc_agaf_22 anc_sic_3 anc_eta_11 anc_fnl_11 anc_fnl_12 anc_eta_12 anc_mrf_11 anc_mrf_12
42	On the DAAC Ingest Server workstation, printout a listing of the temporary storage directory.	The directory listing should contain the data that were in the LaRC DAAC Ingest directory on the NESDIS workstation.	
43	Use the data comparison tool to compare the data received at the simulated LaRC DAAC to the original data at the simulated GDAO.	The comparison tool should return a successful comparison.	
44	Logoff the simulated Data Provider (GDAO) workstation.		
45	On the DAAC Ingest workstation delete all files that may reside in the temporary storage directory.		
46	Logoff the DAAC Ingest Server workstation.		

5.13 Ir1 Release Build (B4)

5.13.1 Build and Install CM platform Test Procedures (T03-01.01.01)

Step No.	Step Description / Operator Action	Expected Results	Observations / Comments
1	Verify that test accounts (login ids and passwords) are setup on all Ir-1 DAAC workstations.	'enter login id: should be displayed on the screen	
2	Enter: <login id > on the workstation where the CM have the tar file	'Password' will be displayed.	
3	Enter: <password> on the workstation.	'host name {user name}:' will be displayed.	
4	Enter: script log_msg on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
5	Enter cd <path of tar file>		
6	Enter ls to make sure that the tar file that you are looking for is there		
7	Enter telnet <target machine> to remotely log onto the machine where testing will be conducted.	'login:' will be displayed	
8	Enter <login id> Enter <password>	'Password:' will be displayed	
9	Enter cd <path> where you want to create the directory for the delivery package to reside in.	'/<path>' is displayed	
10	Enter mkdir < directory name> to create the directory where the Softward delivery will be residing in. Enter cd <newly created directory>	'/<old path/newly created directory>' is displayed	
11	Enter ftp <host computer> to connect back with the host computer	'Name (host name: user name):' will be displayed.	
12	Hit return Enter <password>	'Password:' displayed 'User <user name> logged in.' displayed	These steps will connect you to the SCF machine. These steps will not be applicable if the software delivery package is going to be received by a tape.
13	Enter cd <path of tar file> where delivery package will reside.		
14	Enter bin to set the transfer mode to binary	'Type set to I' will be displayed	
15	Enter ls to make sure that the tar file(s) is(are) there.		

16	Enter get <tar file> to receive file from the host machine. Repeat this step if there more than one tar file needed from this directory.	'CWD command successful' Will receive messages stating successful transfer, name of files in SCF and EDF directories (should be the same unless user specify a change) and how long transfer took for each file	
17	Enter bye to quit ftp		
18	Enter ls to make sure that the tar file was received		
19	Enter gunzip <tarfile>		
20	Enter ls	file listing of the tar file will not have the .gz tag at the end	
21	Enter tar xvf- <tar file> to decompress the tar file		
22	Enter ls to list the directory. Compare this listing with the code handoff listing that was emailed from the CM		
23	Enter cd..		
24	Enter sum <tar file> > csum.lst		This will provide a checksum of the tar file and send it to a file called csum.lst
25	Enter logout to exit the target machine and connect back to the source machine so a checksum can be done on the original file.		
26	Enter ls to make sure tar file is in your current directory		
27	Enter cp <name of tar file> <name of tar file.bkp> to make a backup of the tar file		If you are unable to do this because of privilege problems go to a workstation with X windows and bring up 2 window managers and use to the control key to make a copy by dragging the tar file icon to another window. After that rename the tar file in the 2nd window
28	Enter sum <tar file.bkp> > csum2.lst		This will provide a checksum of the tar file and send it to a file called csum2.lst
29	Enter ftp <target machine> to log back onto the target machine	'Name (<target name> :<user id>:' will be displayed	
30	Hit remote Enter <password>	'Password:' will be displayed	

31	Enter ls to make sure that csum.lst is in the current directory		
32	Enter get csum.lst		
33	Enter bye to exit the target machine		
34	Enter diff csum.lst csum2.lst to compare the two files. If when this is enter and the response is just the next line cursor then the two files are the same		
35	Logoff the source workstation	Successful logoff	
36	Complete test log/end test		

5.13.2 Building Executable Codes for an ECS defined platform type Test Procedures (T03-01.02.01)

Step No.	Step Description / Operator Action	Expected Results	Observations / Comments
1	Verify that test accounts (login ids and passwords) are setup on all IR-1 DAAC workstations. (EDF -edb-bb, epserver, SGFC - ecsfsfc1, ecs-global, MSFC - hydra, meteor, LaRC - ecs, Nephos and EDC -ecs-hpl, ecs-alpha1).	'enter login id: should be displayed on the screen	
2	Enter: <login id at EDF> on the workstation at EDF	'Password' will be displayed.	
3	Enter: <password> on the workstation.	'host name {user name}:' will be displayed.	
4	Enter: script log_msg on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
5	Execute the makefile provided in the delivery package.	An executable file will be created without any error message.	
6	Compare the original executable file of the delivery package with the newly created one.	The checksum of executable file from the software delivery package should match with the newly created one. However, these files will not be matched entirely due to the differences in the hardware at both sites.	
7	Install the executable codes on a required platform	An executable file will be installed on a required platform.	
8	Run the executable code on that platform.	It will perform the functions/operations provided as a part of the Ir-1 system release.	
9	Print the log file	The log file will be printed.	The log file will contain log entries generated as a result of building, installation, executing and verifying executable codes.
10	Logoff the AIT workstation.	Successful logoff	
11	Complete test log/end test		

5.13.3 Build/Install Previous Version of an executable Codes Test Procedures (T03-01.04.02)

Step No.	Step Description / Operator Action	Expected Results	Observations / Comments
1	Verify that test accounts (login ids and passwords) are setup on all IR-1 DAAC workstations. (EDF -edb-bb, epserver, SGFC - ecsfsfc1, ecs-global, MSFC - hydra, meteor, LaRC - ecs, Nephos and EDC -ecs-hpl, ecs-alpha1).	'enter login id: should be displayed on the screen	
2	Enter: <login id at EDF> on the workstation at EDF	'Password' will be displayed.	
3	Enter: <password> on the workstation.	'host name {user name}:' will be displayed.	
4	Enter: script log_msg on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
5	Locate an appropriate executable script in CM to build the executable code of the previous version.		
6	Execute an appropriate makefile to create a previous version of the source codes.	Executable code will be created without any error message on the screen..	
7	Install the executable codes on a required platform using the Clearcase tool.	An executable file will be installed on a required platform.	
8	Run the executable codes on a required platform to verify that it will execute.		
9	Print the log file.	The log file will be printed.	The log file will be updated to reflect the activities of installation and running the executable program.
10	Logoff the AIT workstations	Successful logoff	
11	Complete test log/end test		

5.13.4 Ancillary Data Access - Digital Terrain Map DB Test Procedures (B03.10.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: <login id at EDF> on the AIT workstation at EDF	'Password' will be displayed.	Assume that DAAC Toolkit and Test Drivers are installed in the AIT workstation
2	Enter: <password> on the workstation.	'host name {user name}:' will be displayed.	
3	Enter: **script log_msg** on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
4	Enter: **source /lr1_IT/AI_T/TOOLKIT/bin/sun5/pgs-dev-env.csh**		
5	Enter: **cd $PGSTK_TST_SRC/AA**	The directory will change to where the Toolkit and testdriver are stored.	
6	Enter: **$PGSTK_TST_SRC/Common/createPCF.csh AA**		
7	Enter: **setenv PGS_PC_INFO_FILE $PGSTK_TST_SRC/AA/PCF**		
8	Enter: **make PGS_AA_2Dgeo_Driver_c**	The driver will compile without errors	
9	Enter: **PGS_AA_2Dgeo_Driver_c < PGS_AA_2Dgeo_Driver.in**	The driver will run without errors and results of running the test driver will be saved in an output file	
10	Enter: **diff PGS_AA_2Dgeo_Driver_c.out_sample PGS_AA_2Dgeo_Driver_C.out.***	Expect differences in machine name, out file name, Time, Date etc.	
11	Enter: **exit**	Out of the script	
12	Logoff		

5.13.5 Ancillary Data Access - Land/Sea DB Test Procedures (B03.10.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: <login id at EDF> on the AIT workstation at EDF	'Password' will be displayed.	Assume that DAAC Toolkit and Test Drivers are installed in the AIT workstation
2	Enter: <password> on the workstation.	'host name {user name}:' will be displayed.	
3	Enter: **script log_msg** on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
4	Enter: **source /lr1_IT/AI_T/TOOLKIT/bin/sun5/pgs-dev-env.csh**		
5	Enter: **cd $PGSTK_TST_SRC/AA**	The directory will change to where the Toolkit and testdriver are stored.	
6	Enter: **$PGSTK_TST_SRC/Common/createPCF.csh AA**		
7	Enter: **setenv PGS_PC_INFO_FILE $PGSTK_TST_SRC/AA/PCF**		
8	Enter: **make PGS_AA_Dcw_Driver_c**	The driver will compile without errors	
9	Enter: **PGS_AA_Dcw_Driver_c < PGS_AA_Dcw_Driver.in**	The driver will run without errors and results of running the test driver will be saved in an output file	
10	Enter: **diff PGS_AA_Dcw_Driver_c.out_sample PGS_AA_Dcw_Driver_C.out.***	Expect differences in machine name, out file name, Time, Date etc.	
11	Enter: **exit**	Out of the script	
12	Logoff		

5.13.6 Ancillary Data Access - Climatology DB Test Procedures (B03.10.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	According to the current implementation of PGS Toolkit there's no way to access climatology database therefore, this test will not be performed		

5.13.7 Ancillary Data Access - Digital Political Map DB Test Procedures (B03.10.04)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: <login id at EDF> on the AIT workstation at EDF	'Password' will be displayed.	This test has the same test steps as test case 13.5 (B03.10.02) because both Land/Sea data and Digital Political Map data has similar data format and can be accessed by the same tool
2	Enter: <password> on the workstation.	'host name {user name}:' will be displayed.	Assume that DAAC Toolkit and Test Drivers are installed in the AIT workstation
3	Enter: **script log_msg** on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
4	Enter: **source /lr1_IT/AI_T/TOOLKIT/bin/sun5/pgs-dev-env.csh**		
5	Enter: **cd $PGSTK_TST_SRC/AA**	The directory will change to where the Toolkit and testdriver are stored.	
6	Enter: **$PGSTK_TST_SRC/Common/createPCF.csh AA**		
7	Enter: **setenv PGS_PC_INFO_FILE $PGSTK_TST_SRC/AA/PCF**		
8	Enter: **make PGS_AA_Dcw_Driver_c**	The driver will compile without errors	
9	Enter: **PGS_AA_Dcw_Driver_c < PGS_AA_Dcw_Driver.in**	The driver will run without errors and results of running the test driver will be saved in an output file	
10	Enter: **diff PGS_AA_Dcw_Driver_c.out_sample PGS_AA_Dcw_Driver_C.out.***	Expect differences in machine name, out file name, Time, Date etc.	
11	Enter: **exit**	Out of the script	
12	Logoff		

5.13.8 TRMM Ancillary Data AccessTest Procedures (B03.10.04)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	This test verifies the capability to access TRMM ancillary data products by polling a location for the presence of TRMM ancillary data files and upon detection of a data granule generate a polling request. The data files identified in the polling request are transferred and the data is placed in ECS storage.		This test case was found to be redundant with part of test case 12.5 (BS002.005). "Comparison of the data before ingest and data after ingest " is not part of this test case.

5.13.9 Missing Data Test Procedures (B03.10.06)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: <login id at EDF> on the AIT workstation at EDF	'Password' will be displayed.	Assume that DAAC Toolkit and Test Drivers are installed in the AIT workstation
2	Enter: <password> on the workstation.	'host name {user name}:' will be displayed.	
3	Enter: **script log_msg** on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
4	Enter: **source /lr1_IT/AI_T/TOOLKIT/bin/sun5/pgs-dev-env.csh**		
5	Enter: **cd $PGSTK_TST_SRC/AA**	The directory will change to where the Toolkit and testdriver are stored.	
6	Enter: **$PGSTK_TST_SRC/Common/createPCF.csh AA**		
7	Enter: **setenv PGS_PC_INFO_FILE $PGSTK_TST_SRC/AA/PCF**		
8	Enter: **make PGS_AA_2Dgeo_Driver_c**	The driver will compile without errors	
9	Remove the test input data		
10	Enter: **PGS_AA_2Dgeo_Driver_c < PGS_AA_2Dgeo_Driver.in**	The driver will run with error and indicate it is due to data unavailability	
11	Restore the test data		
12	Enter: **PGS_AA_2Dgeo_Driver_c < PGS_AA_2Dgeo_Driver.in**	The driver will run without errors and results of running the test driver will be saved in an output file	
13	Enter: **diff PGS_AA_2Dgeo_Driver_c.out_sample PGS_AA_2Dgeo_Driver_C.out.***	Expect differences in machine name, out file name, Time, Date etc.	
14	Enter: **exit**	Out of the script	
15	Logoff		

5.13.10 Erroneous Data Test Procedures (B03.10.07)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Enter: <login id at EDF> on the AIT workstation at EDF	'Password' will be displayed.	Assume that DAAC Toolkit and Test Drivers are installed in the AIT workstation
2	Enter: <password> on the workstation.	'host name {user name}:' will be displayed.	
3	Enter: **script log_msg** on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
4	Enter: **source /lr1_IT/AI_T/TOOLKIT/bin/sun5/pgs-dev-env.csh**		
5	Enter: **cd $PGSTK_TST_SRC/AA**	The directory will change to where the Toolkit and testdriver are stored.	
6	Enter: **$PGSTK_TST_SRC/Common/createPCF.csh AA**		
7	Enter: **setenv PGS_PC_INFO_FILE $PGSTK_TST_SRC/AA/PCF**		
8	Enter: **make PGS_AA_Dcw_Driver_c**	The driver will compile without errors	
9	Enter: **PGS_AA_Dcw_Driver_c < PGS_AA_2Dgeo_Driver.in**	The driver will run with error and indicate it is due to data incompable	
10	Enter: **exit**	Out of the script	
12	Logoff		

5.13.11 Local Area Network Fault Test Procedures (B03.11.01)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to a DAAC MSS server workstation (HP) in the EDF using valid ID and password as an adminstrator	Successful logon	
2	Initialize HP Openview by using the commands: **<cd /usr/OV/bin>** to change to the correct directory **<ovw &>** to start the HP Openview graphical interface	A map depicting the overall topology is displayed	
3	Double click on the '**EDF**' icon	A map depicting the EDF configuration is accurately displayed Verify all the symobls are on-line (display in green color)	
4	Enter: **script log_msg** on the workstation at EDF.	All input/output to the workstation will be recorded in the log_msg file.	
5	Begin the Science Software Delivery Package transfer		
6	Have the power to the gateway/router into the DAAC LAN turned off (or reset).	The transfer should have stopped	
7	Look at the router symbol on the HP Open View	Symbol should have turned red.	
8	Wait until the router/gateway is fully up and look at the router symbol on the HP Open View	The Router symbol should turned back to gree again	
9	Print the history log containing the activities of scheduling and executions	The history log file will be printed.	The history log file will reflect the which router went down and what time.
10	Enter **exit**	Exit the script	
11	Close the Open View and Logoff		

5.13.12 Wide Area Network Fault Test Procedures (B03.11.02)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to a DAAC MSS server workstation (HP) in the EDF using valid ID and password as an adminstrator	Successful logon	
2	Initialize HP Openview by using the commands: **<cd /usr/OV/bin>** to change to the correct directory **<ovw &>** to start the HP Openview graphical interface	A map depicting the overall topology is displayed	
3	Double click on the '**GSFC**' icon	A map depicting the GSFC configuration is accurately displayed Verify all the symobls (router and hosts etc) are on-line (display in green color)	This test step proofs that System Magement Center (ECS) has the ability to monitor site hardware element status (on-line).
4	Since the router in the wide area network - V0 network is not owned by ECS therefore no fault test can be performed		
5	Close the OpenView and logoff		

5.13.13 Host Machine Fault Test Procedures (B03.11.03)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to a DAAC MSS server workstation (HP) in the EDF using valid ID and password as an adminstrator	Successful logon	
2	Initialize HP Openview by using the commands: **<cd /usr/OV/bin>** to change to the correct directory **<ovw &>** to start the HP Openview graphical interface	A map depicting the overall topology is displayed	
3	Double click on the '**EDF**' icon	A map depicting the EDF configuration is accurately displayed Verify all the symobls are on-line (display in green color)	
4	Begin the Science Software Delivery Package transfer		
5	Shutdown the target host	The transfer should have stopped	
6	Look at the host symbol on the Open View EDF map.	Symbol should have turned red.	
7	Look the history log containing the fault report	The history log is verified	
8	Close the Open View and logoff	Successful logoff	

5.13.14 File Transfer Termination Test Procedures (B03.11.04)

Step No.	Step Description/Operator Action	Expected Results	Observations/Comments
1	Logon to a DAAC MSS server workstation (HP) in the EDF using valid ID and password as an adminstrator	Successful logon	
2	Initialize HP Openview by using the commands: **<cd /usr/OV/bin>** to change to the correct directory **<ovw &>** to start the HP Openview graphical interface	A map depicting the overall topology is displayed	
3	Double click on the '**EDF**' icon	A map depicting the EDF configuration is accurately displayed Verify all the symobls are on-line (display in green color)	
4	Begin the Science Software Delivery Package transfer		
5	Shutdown the local host from another terminal	The transfer should have stopped	
6	Look at the host symbol on the Open View EDF map.	Symbol should have turned red.	
7	Look the history log containing the fault report	The history log is verified	
8	Close the Open View and logoff	Successful logoff	

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